Description and Operating Manual

File: W4

Level Generator

AT-610

for the frequency range coaxial: 6 kHz to 18,6 MHz
balanced: 6 kHz to 300 kHz and
60 kHz to 10 MHz

LEVEL GENERATOR AT-610

frequency range coaxial:	6 kHz to 18.6 MHz
balanced:	6 kHz to 300 kHz and 60 kHz to 10 MHz

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Circuit diagram details

Block diagram PS-60, BN 610 and AT-610, BN 610/1
PSS-60, BN 610/2 and AT-610, BN 610/3

Circuit diagram and component plans
for the Level Generators PS-60, PSS-60 and AT-610

Glossary German-English for the parts lists
Parts Lists PS-60, BN 610

Modifications from BN 610 to BN 610/1, 610/2 and 610/3

Remarks
The circuit diagrams as well as the parts lists are arranged according to the identifying numbers of the modules. These numbers permit the block diagram to be numbered accordingly.

INTRODUCTION

The Level Generator AT-610 has the features of easy operation with high accuracy of frequencies and levels. It has a range of 6 kHz to 18.6 MHz,and all frequencies are continuously tuned through a single range only. Moreover, a fine tuning control making use of a low gear ratio considerably simplifies the frequency setting accuracy.

In addition, the vernier tuning of the send frequency can be done with a potentiometer. The vernier tuning range at low frequencies is approx. 200 Hz and at high frequencies is approx. 1.5 kHz.

The set-up frequency is readout on either a 5 or a 6 digit frequency counter display which has bright and flicker-free illuminated figures. It has good readability even in brightly lit rooms.

Frequency readout with coarse tuning is 1 kHz (5 digit display) and with fine tuning is 100 Hz (6 digit display). If the push button is depressed, then as a result of the decimal point shift to the left, the readout is 100 Hz or 10 Hz respectively.

The AT-610, due to its design, is especially suitable for selective measurements on frequency systems. Indication of the measured result is done with an analog meter having two scales, 2 dB or 20 dB either of which is chosen by means of a change-over switch. Thus, the expansion afforded with the full scale range of 2 dB assures an extremely accurate setting of the output level. Additionally the switching of 2 dB increments in output level provides an excellent level resolution.

The set-in level range is indicated at a window on the front panel.

Another worthwhile feature is the compatibility of the AT-610 with Level Meters AT-611 or AT-463.

When Level Generator and Level Meter are operated at the same location, the send frequency may be synchronously tuned from the Receiver if an auxiliary connection is established. This considerably simplifies operation.

For this case, there can be used the Special Send Unit BN 610/3. In this version the carrier frequency oscillator and the frequency readout are not included. However, all connections and settings - with except of the send frequency tuning - are identical with those of the normal version AT-610. The specifications (chapter 1) and the instructions of the following chapters are accordingly valid for the Send Unit BN 610/3.

Swept frequency measurements expedite the lining-up and equalizing of transmission paths in CF systems. When the Sweep Frequency Unit WZ-6 is connected, the output voltage of the Level Generator is swept through its range of frequencies. If the send frequency is fed back to the Sweep Frequency Unit WZ-6, then a closed loop automatic control circuit is set up. By this means, the high accuracy of the preselected sweep range limits is assured.

A modulation input permits the Generator output voltage to be amplitude modulated with frequencies between d.c. and 100 kHz.

The AT-610 is available as a bench or for mounting in a standard 19" rack.

1. SPECIFICATIONS

All essential characteristics of our instruments are indicated by guaranteed tolerance and limit specifications and not as typical values. They are valid for each instrument not only on delivery but also for the whole guarantee period.

1. SPECIFICATIONS

Unless otherwise stated, the specifications are valid for the permissible range of a.c. line voltage and for the rated range of use of temperature immediately after the set is switched ON.

1.1. Frequency

Frequency range,	coaxial Z = 75 Ω	6 kHz to 18.6 MHz
	balanced Z = 124 Ω	60 kHz to 10 MHz
	balanced Z = 135 Ω	6 kHz to 300 kHz
Frequency setting		continuously tunable over single complete range
	coarse	50 turns of the knob/band
	fine	800 turns of the knob/band
additional vernier tuning		center of tuning range ± 800 Hz
Frequency readout		through frequency counter with 6 place flicker free incandescent numerals
Frequency resolution, switchable		1 kHz, 100 Hz, 10 Hz
Measuring sequence		77, 8, 3.3 measurements/sec.
Accuracy limits at +20 °C		$\pm 4 \times 10^{-6} \pm 1$ digit [1] of the least significant figure
Average temperature coefficient in rated range of use of ambient temperature referred to +20 °C		$\leqq \pm 3 \times 10^{-7}/K$

1.2. Send level

Send level at 0 dBm meter reading		-72 dBm, -70 dBm, -68 dBm to +6 dBm
Meter scales		
Scale, unexpanded		-20 dBm to +1 dBm
expanded		-2.2 dBm to +0.3 dBm
Accuracy limits of the send level		
Accuracy limits of the send level in range 0 dBm at 0 dBm reading and +20 °C:		
coaxial output	f = 20 kHz to 6 MHz	± 0.15 dB
$Z_{out} = Z_L = 75\ \Omega$	f = 6 kHz to 18.6 MHz	± 0.20 dB
balanced outputs		
$Z_{out} = Z_L = 124\ \Omega$	f = 60 kHz to 10 MHz	± 0.20 dB
$Z_{out} = Z_L = 135\ \Omega$	f = 6 kHz to 300 kHz	± 0.20 dB
Accuracy limits of the send level switch referred to position 0 dBm, scale range 2 dB [2]		
coaxial output	f = 20 kHz to 6 MHz	± 0.10 dB
$Z_{out} = Z_L = 75\ \Omega$	f = 6 kHz to 18.6 MHz	± 0.20 dB
balanced outputs		
$Z_{out} = Z_L = 124\ \Omega$	f = 60 kHz to 10 MHz	± 0.20 dB
$Z_{out} = Z_L = 135\ \Omega$	f = 6 kHz to 300 kHz	± 0.10 dB
Accuracy limits of the 20 dBm meter scale referred to the 0 dBm scale mark		± 1 % f.s.d.
Accuracy limits of the 2 dBm meter scale referred to the 0 dBm scale mark		± 0.03 dBm
Average temperature coefficient of send level in rated range of use of ambient temperature referred to +20 °C		+ 0.01 dBm

1. SPECIFICATIONS

1.3. Generator outputs

Return loss [4]

coaxial output

Z = 75 Ω	f = 6 kHz to 18.6 MHz	≦ 0.02

balanced outputs

Z = 124 Ω	f = 60 kHz to 10 MHz	≦ 0.03
Z = 135 Ω	f = 6 kHz to 300 kHz	≦ 0.03

Generator signal balance ratio

Z = 124 Ω	f = 60 kHz to 10 MHz	≧ 40 dB
Z = 135 Ω	f = 6 kHz to 300 kHz	≧ 40 dB

1.4. Harmonic and inharmonic impairment voltages

Harmonic and inharmonic impairment voltages at a send level of 0 dBm and $Z_{out} = Z_L = 75\ \Omega$ or else $Z_{out} = 0$, $Z_L = 75\ \Omega$

Harmonic ratio ak_2 and ak_3 at fundamental frequencies:

f = 20 kHz to 6 MHz	≧ 50 dB
f = 6 kHz to 18.6 MHz	≧ 40 dB

Inharmonic impairment voltages:

signal-to-noise ratio	≧ 60 dB

1.5. Inputs

Control input Bu 801
(for control through AT-463 or AT-611 with carrier signal 24 MHz to 42.6 MHz)

Input voltage	V_{rms} = 40 mV
Input impedance	75 Ω

Control input Bu 1901
(for control through AT-463 or AT-611 with 1 MHz frequency standard)

Input voltage	V_{rms} = 200 mV
Input impedance	75 Ω

Modulation input (AM) [3]

Frequency range	0 to 100 kHz
Input impedance	600 Ω
Modulation voltage needed for sinusoidal modulation	V_{p-p} approx. 6 mV for m = 1 %
Maximum permissible input voltage	V_{rms} = 10 V

1.6. General specifications

Permissible ambient temperature	
Limits range for storage	- 40° C to + 60° C
Limits range of operation	- 10° C to + 50° C
Rated range of use	+ 10° C to + 35° C

Power supply . . a.c. line voltage, adjustable	rated range of use
110 V	93.5 V to 121 V
117 V	100 V to 129 V
127 V	109 V to 141 V
220 V	187 V to 242 V
227 V	193 V to 250 V
235 V	202 V to 262 V

A.C. line frequency	45 to 440 Hz
Power consumption	approx. 20 VA

1. SPECIFICATIONS

Dimensions	(19" rack mounting DIN 41 494)	
	Width without handles	442 mm
	Height overall	176 mm
	Depth with handles	407 mm
Weight		16 kg

1.7. Inverter WR-420

D.C. voltage at input [5]

Rated ranges of use	Range	Rated value/V	Voltage range/V
	I	12	11 to 15
	II	24	22 to 29
	III	36	33 to 45
	IV	48/60	44 to 68 max. [6]

A.C. voltage at output

Earth-free, sinusoidal	117/220 V ± 10 % [7]
Frequency	400 Hz ± 10 % [7]

Power

At rated voltage and resistance load	15 W max.
At rated voltage and rectifier load [8]	20 VA max.

Efficiency [5]

At 24 V input and 15 W output (resistance load)	$\eta \geqq 0.5$
At 24 V input and 20 VA rectifier load	$\eta \geqq 0.7$
Other values according to input d.c. voltage and type of load	$\eta = 0.4$ to 0.8

General specifications

Permissible ambient temperature

Limits range for storage and transport	- 40 °C to + 70 °C
Rated range of use: when mounted on back panel of equipment, without covering	- 10 °C to + 70 °C
when mounted on back panel of equipment, with transportation case cover	- 10 °C to + 55 °C
Warm-up time	≦ 5 min.
Protection class according to VDE 0411	I
Dimensions, w x h x d in mm	170 x 53 x 65
Length of power cord with equipment connector	0.5 m
Weight	0.9 kg

1.8. Ordering Information

Level Generator AT-610	BN 610/1
Special Send Unit AT 6103	BN 610/3
Measuring accessories (at extra cost)	
Inverter WR-420	BN 678
Transportation Protective Cover for AT-610	DE 3

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1. SPECIFICATIONS

1) For the instruments of Series A and B, the frequency error is increased by ± 5 Hz.

2) When using the scale range 20 dBm, the values are valid for meter readings of - 2 dBm to + 1 dBm. For lower meter readings the values are valid only for the positions - 10/- 20/- 30/to - 70 dBm.

3) When using the modulation input, the send level indicator is out of operation. The output level can be changed only in 10 dBm increments.

4) The return loss is measured as unbalanced.

5) D.C. voltage minus peak value of superimposed a.c. voltage

6) D.C. voltage plus peak value of superimposed a.c. voltage

7) This value includes the variations with temperature, load (0 to 15 W) and d.c. input voltage including range change-over. The given limits of accuracy of rms values of output voltages (± 10 %) are referred to V_{in} = 13.5 V, V_{out} = 220 V or 117 V ± 1 % and an output power of 15 W resistance load.

8) Here, it is understood that a considerable portion of the power absorbed by the load has been transformed into d.c. through the rectifier circuit.

2. OPERATION

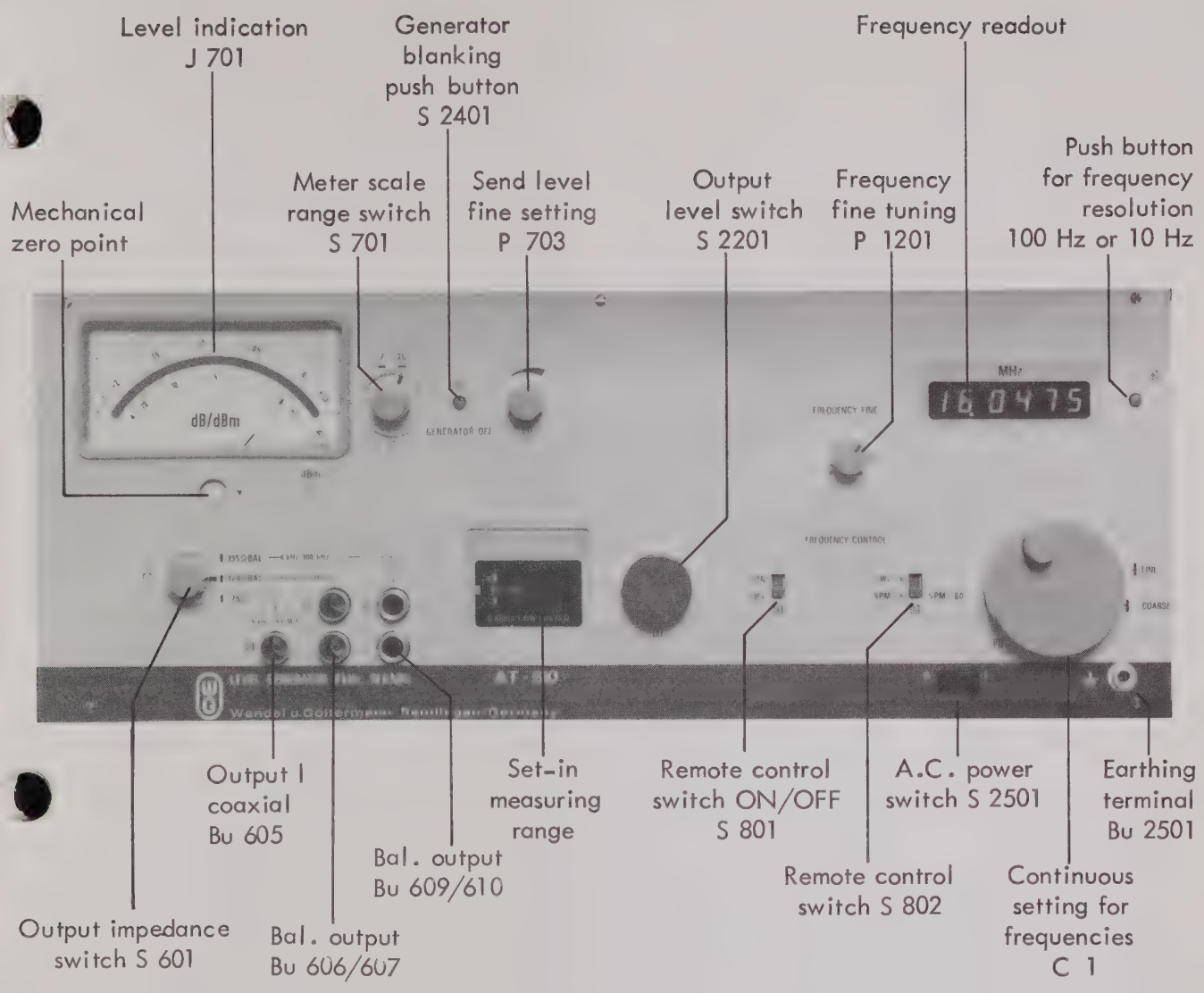

Level indication
J 701
Generator
blanking
push button
S 2401
Frequency readout
Push button
for frequency
resolution
100 Hz or 10 Hz
Mechanical
zero point
Meter scale
range switch
S 701
Send level
fine setting
P 703
Output
level switch
S 2201
Frequency
fine tuning
P 1201
dB/dBm
GENERATOR OFF
FREQUENCY FINE
MHz
16.0475
FREQUENCY CONTROL
COARSE
AT 50
Output I
coaxial
Bu 605
Set-in
measuring
range
Remote control
switch ON/OFF
S 801
A.C. power
switch S 2501
Earthing
terminal
Bu 2501
Bal. output
Bu 609/610
Remote control
switch S 802
Continuous
setting for
frequencies
C 1
Output impedance
switch S 601
Bal. output
Bu 606/607

Fig. 2-1

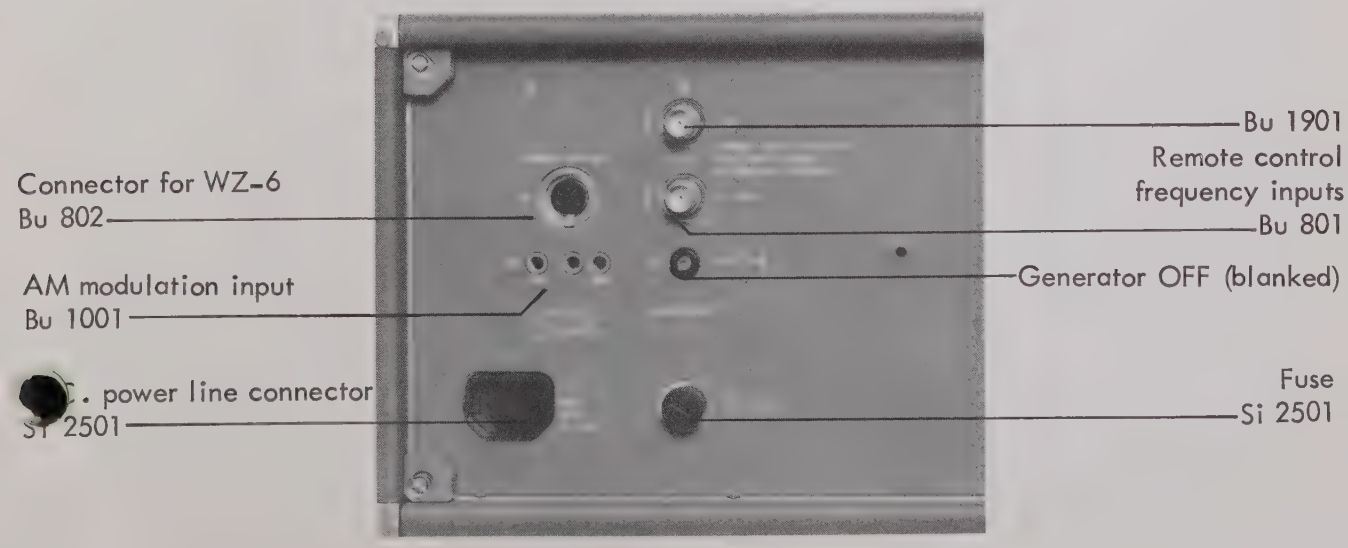

Bu 1901
Remote control
frequency inputs
Connector for WZ-6
Bu 802
Bu 801
Generator OFF (blanked)
AM modulation input
Bu 1001
Fuse
Si 2501

Fig. 2-2

2. OPERATION

2.1. Configuration of the AT-610

Level Generator AT-610 is designed to be used for both stationary and mobile operation.

2.1.1. Operating controls

All operating elements, indicating devices and the output connectors for the send signal are arranged for easy access on the front panel.

Input connectors for a.c. power, remote control and modulation as well as the input for connecting the Sweep Frequency Unit WZ-6 are all located on the back panel of the AT-610. The positions of all the operating controls and the connectors are illustrated in Fig. 2-1 and 2-2.

2.2. Connecting and setting-up the AT-610

2.2.1. Mechanical zero adjustment

Before the Level Generator is switched ON, the mechanical zero point "▼" of analog meter J 701 should be checked and, if necessary, corrected.

2.2.2. A.C. power line operation

The AT-610 is factory set at an a.c. line voltage of 117 V. When needed, however, the voltage selector switch on the back panel permits fast change-over to other line voltages. The selected voltage is indicated at the window on the equipment's side panel.

For the voltage range, 220 V to 235 V, a fuse T 0.125 A (slow blow) is used. If the a.c. line voltage used is in the range 110 V to 128 V, then the fuse must be changed to T 0.25 A (slow blow).

2.2.3. Operation free of a.c. lines

With mobile operation, the AT-610 obtains power from Inverter WR-420 used with an external battery. The Inverter can be switched over for use with rated battery voltages of 12 V, 24 V, 36 V and 48/60 V.

Two sinusoidal a.c. voltages are available: 220 V/400 Hz and 117 V/400 Hz. Output power is 20 VA. The complete Measuring Setup AT-610/AT-611 requires one Inverter WR-420 for each set.

2.3. Generator

2.3.1. Generator outputs, output impedance

The AT-610 has one coaxial and two balanced outputs with different output impedances and for different frequency ranges.

2.3.1.1. Output I (coaxial)

When a switchable cable is connected to output I (Bu 605), the output impedance: $Z_{out} = 75\ \Omega$.

2.3.1.2. Output II and III (balanced)

Balanced output II, with an output impedance of 124 Ω (Bu 606/607), is used in the frequency range 60 kHz to 10 MHz.

Output III (Bu 609/610) is used for balanced measurements in the frequency range 6 kHz to 300 kHz.
$Z_{out} = 135\ \Omega$.

2.3.2. Setting the send frequency

2.3.2.1. Continuous frequency setting

Frequency setting is done continuously in a single range. But the slide switch must be in position "REMOTE CONTROL OFF".

With coarse tuning, i.e. with depressed drive knob, the frequency is readout on 5 digits at the display window of the counter (resolution 1 kHz).

With fine tuning, i.e. the drive knob is pulled out, there is a 6 digit readout at the display window (resolution 100 Hz).

Additionally, the send frequency can be set more exactly with the potentiometer "FREQUENCY FINE", and at low frequencies can be retuned by about 200 Hz or at high frequencies by about 1.5 kHz. These settings can be usefully used with a frequency resolution of 10 Hz which results from depressing the push button next to the readout as well as using the drive knob while pulled out. Thereby, the readout remains at 6 digits, but the decimal point is shifted one place to the left. Thus, the first digit disappears as shown in the following example:

f = 13.24568 Readout: | 3 . | 2 | 4 | 5 | 6 | 8 |

With a 5 digit readout (coarse tuning) if the push button is depressed, then the readout is 6 digits at a resolution of 100 Hz. The send frequency is displayed flicker-free at both 1 kHz and 100 Hz resolutions. The turns ratio is 20 : 1 for the fine drive mechanism (pulled out drive knob). Note: For the case of tuning lower than zero, the readout appears as 99.9999 MHz. Obviously, this readout is invalid (frequency limit 18.6 MHz), however it is a natural consequence of the counter's design.

2.3.2.2. Remote control through Level Meter AT-611/AT-463

If both the Generator and the Level Meter are operated at the same location, then the send frequency can be synchronously tuned from the Level Meter. Thereto, the two cable connections are necessary as shown in the following:

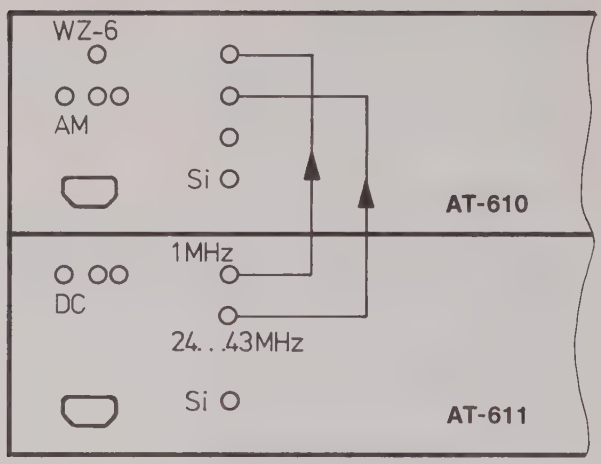


Fig. 2-3

The slide switch must be set to position "REMOTE CONTROL ON", and the AT-463/AT-611 remains unchanged. Due to the frequency setting being done at the Level Meter, the frequency readout is extinguished at the AT-610.

2.3.2.3. Sweep Frequency Unit WZ-6

Level Generator AT-610 is applicable for swept frequency measurements after connection of the Sweep Frequency Unit WZ-6. Each of the four sweep ranges is available through preselection at corresponding push buttons. This method considerably simplifies using the Sweep Frequency Unit. However, for further accomodating the various types of measuring tasks, it is possible to set in several different sweep rates as well as adjust an optional choice of centre frequencies and sweep widths.

Additional information is located in the Description and Operating Manual WZ-6.

2.3.3. Send level setting

The coarse setting of send level in 2 dB increments is done with the variable output level switch S 2201. The level value set at the switch is displayed in the indication area and is a valid value when the analog meter reads 0 dB.

Constant setting of the send level (fine setting) is done with potentiometer P 703 located above the display window. The scale range switch S 701 permits changeover of both the scale range of J 701 as well as the setting sector limits of potentiometer P 703.

It is of advantage, especially for very exact level settings, usually to switch the meter to the expanded 2 dB scale range. Switch S 701 at extreme left position.

If the level is to be continuously varied over more than 2 dB, for instance scanning the band, then the unexpanded meter scale and the 20 dB setting range of potentiometer P 703 must be used. Switch S 701 is set at the extreme right position.

2.3.3.1. Generator blanking

If the measuring task requires that the output signal be temporarily blanked out, this can be done with push button S 2401. Blanking of the send level is "soft", that is the level is first reduced , and then the signal is totally switched out. This method prevents transients of frequency and voltage from appearing at the output of the Generator. At the same time this enables determination whether the Generator might be responsible for any impairment voltages which occur while in use.

2.4. External amplitude modulation

The send signal can be externally modulated with signals in the frequency range 0 to 100 kHz. AM input connector Bu 1001 on the back panel is provided for this purpose.

The input impedance is 600 Ω in linear modulation range, but with an over-driven condition, the input impedance decreases because of the internal protective diodes.

Sinusoidal modulation up to m = 100 % can be applied to the send signal. Thus, when m = 30 %, the modulation distortion factor is approx. 3 %, and when m = 80 %, the distortion factor is approx. 6 %.

The slope of the modulation characteristic is 1 % per 1.5 mV.

If the AM input connector Bu 1001 on the back panel is being used, then the level indication and automatic level control are switched out. A continuous setting and settings in 2 dbm increments are no longer possible. The level is only switchable in 10 dbm increments.

3. TECHNOLOGICAL INSTRUCTIONS

3. TECHNICAL INSTRUCTIONS

3.1. Measurements of very high impedances

When level measurements are made on two port networks which have higher impedances the value of isolation impedance is ambiguous between Generator and Level Meter of the Measuring Setup. Three cases can illustrate measurement error:

1 the ideal case of a resistance free connection between the chasses of the Generator and the test specimen and from this to the Level Meter
2 an infinitely large isolation resistor between Generator and Level Meter
3 the measurement error also at any very high value of impedance.

Thus the measurement error is only at the order of magnitude of accuracy of Generator and Level Meter for instance dependent on the sensitivity of the latter. Fig. 3-1 clarifies the above three cases.

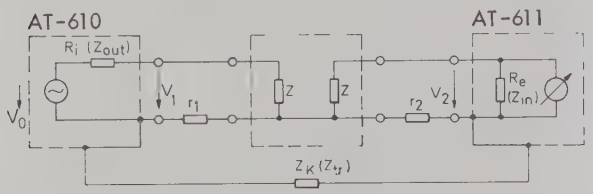


Fig. 3-1

A two port network serves as test specimen with infinitely high attenuation. Z_k is the isolation impedance, r_1 and r_2 are the unavoidable resistances of the cable screening [1], and as with Z_k can be complex impedances. Thus there is a potential difference between the cabinets of the Generator and the Level Meter.

For a finite value of isolation impedance, Z_k, a signal current flows through r_2, and this causes a signal voltage at the Receiver input; therefore this simulates a finite value of attenuation from the test specimen.

A simple calculation with the assumption that r_1 and r_2 are very small compared to Z_{out}, Z_{in}, Z and Z_k gives:

$$\frac{V_2}{V_0} = \frac{r_1}{Z_{out} + Z} \times \frac{r_2}{Z_k} \times \frac{Z_{in}}{Z_{in} + Z}$$

For the case $Z_{out} = Z_{in} = Z$, the image attenuation coefficient, a :

$$a = 20\ dB \times \log \frac{V_0}{2 \times V_2}$$

substituting for V_o

$$a = 20\ dB \times \log \frac{2 \times Z \times Z_k}{r_1 \times r_2}$$

For instance, therefore, this attenuation for a max. measuring error of 0.01 dB, must be about 60 dB (for 0.1 dB about 40 dB) greater than the attenuation to be measured when the worst case is taken into account for the phase angle between measuring voltage and error voltage.

The isolation impedance Z_k is comprised of several components, namely the equipment capacitance to earth, the various reactances due to the remote control cable and power cord as well as the capacitance between the equipments.

These capacitances plus the unavoidable inductance of the measurement cable make up a series resonant circuit (return loop) which is the determining factor of the isolation impedance at the upper frequency limit of the Measuring Setup. If the equipments are separated by at least 30 cm, however, there is the possiblity of reducing the capacitance between the equipments. As a consequence, the resonant frequency can be shifted to a higher frequency. Thereupon, it is possible to raise the magnitude of Z_k to at least 60 Ω (also in remote control operation). If the two equipments are stacked, the $|Z_k| \approx 10\ \Omega$ at the upper frequency limit.

With external control, $|Z_k| \leqq 100\ \Omega$ over the entire frequency range. This is a result of the coaxial input connectors Bu 801 and Bu 1901 for the external control cable.The connectors are insulated from the cases of the AT-610/ AT-611, but the outer conductor at Bu 801 is connected through an attenuation resistor of 100 Ω to the equipment case.

If r_1 and r_2 are assumed to be each 10 mΩ, that is the value of isolation resistance for a high quality, double screened coaxial cable 50 cm in length, then with Z = 75 Ω for the configuration of Fig. 3-1, there is an attenuation of 159 dB.

When Measuring Setup AT-610/AT-611 is used at full accuracy to measure an attenuation of 93 dB (send level + 1 dBm, receive level - 92 dBm), the assumed calculated value of 159 dB leads to an additional inaccuracy of at most 0.01 dB.

If there is no high quality cable available, simple screened cable exhibits isolation resistance of 50 to 200 mΩ per meter, or if long lengths of cable cannot be removed, then the isolation resistance can be increased by separating the Generator and Receiver and eliminating the remote control of generator frequency.

---

1) In the literature, r_1 and r_2 are designated as "isolation resistance" for coaxial cables, connectors and similar, the following definitions apply:

isolation resistance = voltage drop across the outer skin of the outer conductor / current through the inner skin of the outer conductor

or

isolation resistance = voltage drop across the inner skin of the outer conductor / current through the outer skin of the outer conductor

4. DESIGN DETAILS AND CHARACTERISTICS

4. FUNCTIONS AND CHARACTERISTICS

4.1. Level Generator AT-610

Level Generator AT-610 is a beat frequency oscillator type sender. An automatic level control circuit maintains a constant value for the output level. The high accuracy of level results from the combination of average value and peak value rectification, whereby the best advantages of both are utilized.

The input connector for modulation (Bu 1001) on the back panel permits either external amplitude modulation or external control over the modulation. The send frequency can be remotely controlled from Level Meter AT-611/AT-463
Additional, the AT-610 may be swept through the frequencies if the Sweep Frequency Unit WZ-6 is connected. That is, it can be used for swept frequency measurements.

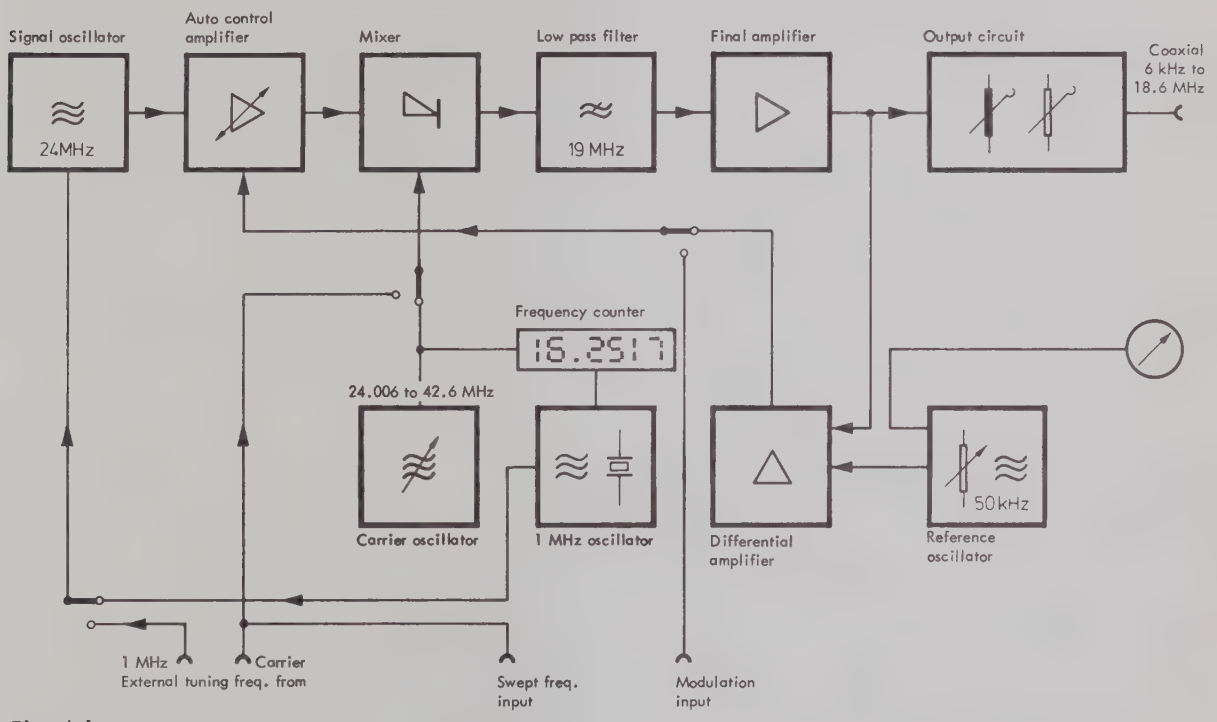


Fig. 4-1

4.1.1. Rectifier circuit, auto. level control

Requirements levied on the rectifier circuit in a level generator are: high stability, minimum variation with temperature, excellent linearity and negligible variation with frequency. An average value rectifier has all of these characteristics except for the minor variation with frequency over the extensive range used here. A peak value rectifier, however, does have an extremely good frequency response to far past the required range, but it does not have good linearity and temperature stability.

For these reasons, the AT-610 utilizes the advantage of both types of rectifiers. See Fig. 4-2

The amplitude control loop via the a.c. differential amplifier (5) and the 24 MHz auto. control amplifier (10) provide, therefore, that the rectified values of voltage are identical for both peak value rectifiers.

In so far as the characteristic curves of the diodes coincide, this is also valid for the a.c. voltage $V_a = V_{ref}$, even when the signal-drive characteristic curves are badly bent. Since the frequency response of the peak value rectifier is very good, a fixed frequency of 50 kHz is applied as V_{ref}. Thus, instead of the output voltage V_a, it is sufficient to measure the 50 kHz reference voltage V_{ref}. This voltage is rectified by an average value rectifier and then indicated on analog meter J 701.

Due to the extremely exact coincidence of the characteristic curves of the two peak-rectifiers extending over a large range of levels, in addition to the continuous level adjustment accordingly also the 2 dB attenuator increments may be included in the 50 kHz reference path.

As a result of the output voltage V_a not being directly measured, the level reading is only correct while the auto. control circuit operates according to design, i.e. not in over-driven operation. If the auto. control circuit, however, is overdriven for instance from a defective circuit in the AT-610, then the analog meter reading switches out to prevent a false level reading.

4. FUNCTIONS AND CHARACTERISTICS

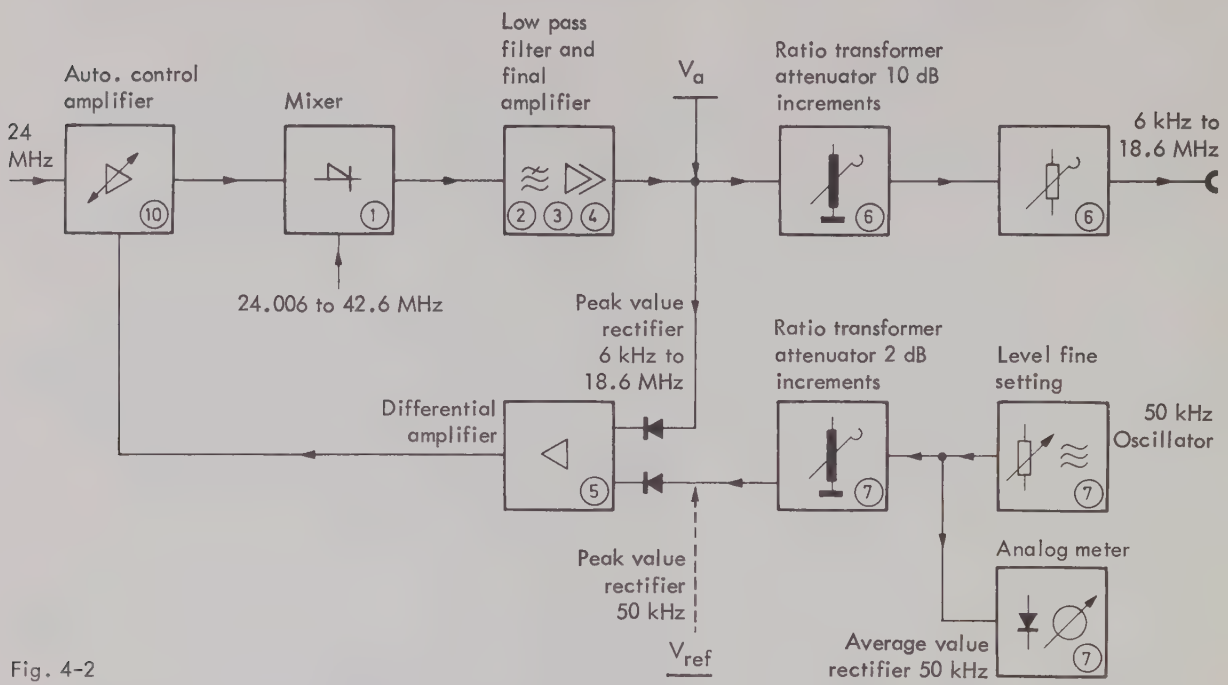


Fig. 4-2

4.1.2. Frequency generation

The 24 MHz oscillator is phase locked to the signal from the 1 MHz oscillator. Carrier frequency f_c for controlling the mixer is tunable in the range from 24 to 42.6 MHz and it originates through the tripling of the control frequency f_{st}, the output from an LC oscillator continuously tunable in range 8 to 14.2 MHz.

Tripling is done with the aid of a phase-locked-loop (PLL) whose reference magnitude is formed by the control oscillator. Therewith, the carrier frequency is divided in ratio 3 : 1 and compared with the control frequency in a phase comparison circuit. The output is a voltage proportional to the phase difference between the two frequencies, and it retunes the voltage controlled carrier oscillator to $f_c = 3 \times f_{ST}$

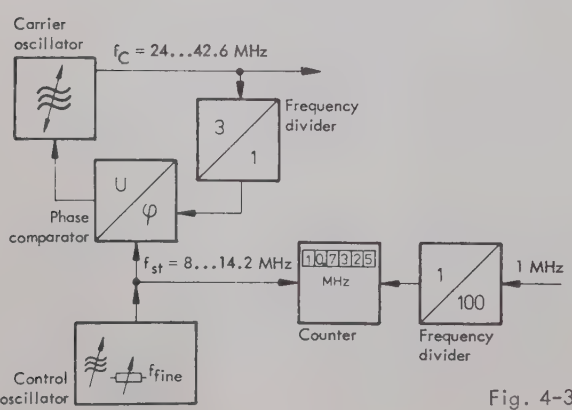


Fig. 4-3

4.1.3. Frequency readout

The readout of the set-in frequency is done at a 6 digit illuminated display of the frequency counter. It results from measuring the frequency of the control oscillator whereby the presetting and the open gate interval of the counter are chosen in a way so the frequency is constantly correct and readout within the utilized frequency range 6 kHz to 18.6 MHz. The measuring time is derived from dividing the crystal controlled 1 MHz oscillator frequency. The number of measurements per second is tied in with the resolution as follows:

Resolution 1 kHz: about 80 measurements/sec.
(5 digit readout)

Resolution 100 Hz: about 8 measurements/sec.
(6 digit readout)

Resolution 10 Hz: about 3 measurements/sec.
(6 digit readout + decimal point shift)

The counter contains the time base and counter control of the counter circuit as well as the buffer, the decoder/driver and the readout display.

A new type of circuit assures a flicker-free readout of frequency to the last significant figure. Merely depressing the push button (resolution 10 Hz) causes the circuit to be disabled.

5. MAINTENANCE AND GENERAL INFORMATION

5. MAINTENANCE AND GENERAL INFORMATION

Danger: Before the cabinet is opened, the a.c. power line should be disconnected.

5.1. Mechanical assembly

The cabinet dimensions correspond to the new DIN Standard 41 494 and the USA Standards, RETMA, as well as ASA C 83.9. Accordingly, the equipment can be mounted in a 19" rack.

Cover, base plate, back panel and side panels are manufactured out of plastic covered aluminium sheetes. After removal of the corresponding screws on the back panel, the chosen panel can be pulled out backwards. Thereupon, the switches and circuit elements are accessible. In order to obtain access to the subassemblies at the centre of the equipment subassembly (7) (50 kHz circuit) is fabricated on a folding subchassis, and after removal of two screws and the drive coupling, the subchassis may be unfolded outwards.

If the chassis must be completely removed for instance to change components, then only a "Subminix" plug as well as a multi-pin Amphenol plug and the right hanger (hinge) need be removed.

5.2. Switch maintenance

To prevent mechanical wear at the switch, the indents should have periodic reapplication of switch lubricant.

5.3. Changing fuses

The fuse holder is located on the back panel of the equipment. After the cap has been unscrewed, the fuse is accessible and can be exchanged. Make sure that the correctly rated fuse is replaced! See paragraph 2.2.2.

5.4. Universal connectors Versacon® 9

The control inputs for remote control of the AT-610 are fitted with the new Universal connectors of Wandel u. Goltermann.

These have the advantage that adaptors can be changed quickly for the connector types listed below. No resoldering is needed, only a mounting wrench is used (order number W1).

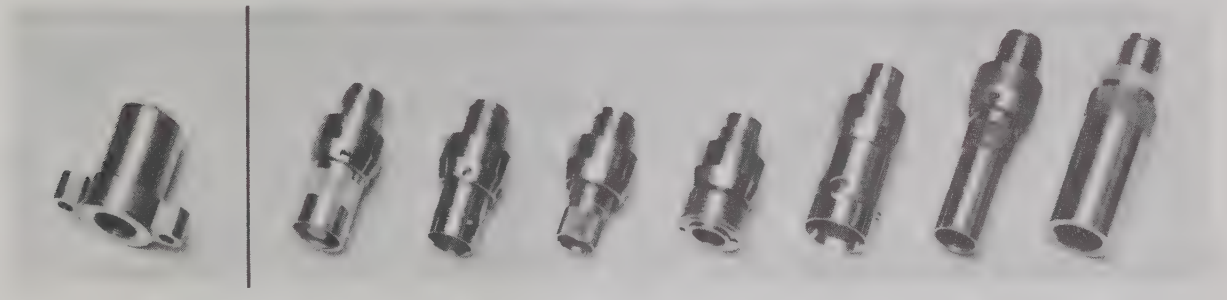


Fig. 5-1

5.5. Mounting in a 19" rack

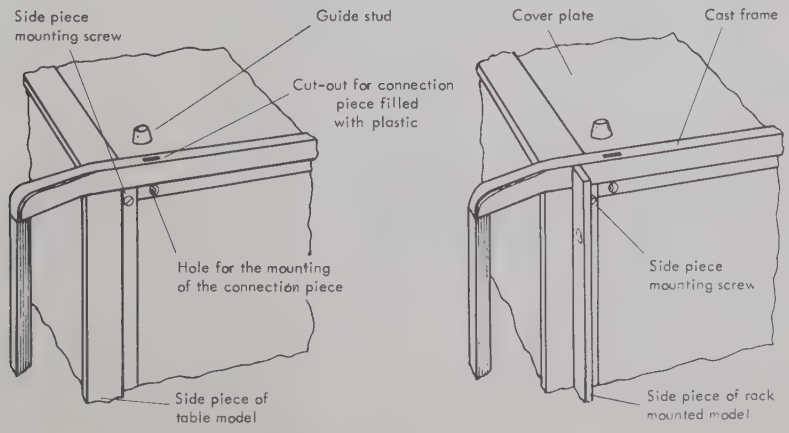

Side piece mounting screw
Guide stud
Cut-out for connection piece filled with plastic
Hole for the mounting of the connection piece
Side piece of table model
Cover plate
Cast frame
Side piece mounting screw
Side piece of rack mounted model

Fig. 5-2

5. MAINTENANCE AND GENERAL INFORMATION

If the equipment is to be mounted in a standard 19" rack, then the side pieces of the case frame must be replaced with special mounting brackets order number BN 556/4. The front panel dimensions are increased in width to that of the mounting dimensions for a 19" rack. After removal of two screws (see Fig. 5-2), the side pieces of the case can be exchanged for the brackets.

Cover and base plate are removed, then the feet and guide studs are removed. Side panels, cover and base plate are replaced and the screws are tightened.

5.6. Combining several equipments

The new cabinet conception allows the mounting of several instruments, one above the other. These instruments are firmly mounted together by means of special connection pieces, order number 00-0400.06/5.

To do this, it is necessary to remove the cover of the lower instrument and the base plate of the upper instrument as well as the side panels of both. The small plastic pieces in the frame cut-outs are now pushed out. This is done for the four cut-outs of the upper frame and the four cut-outs of the lower frame.

The four connection pieces are placed into the cut-outs of the lower instrument as shown in Fig. 5-3 and are screwed firmly into place. After removing the guide studs from the cover and the foot pieces from the base plate, both panels should be replaced.

The instruments are now placed one above the other so that the connection pieces, mounted in the frame of the lower instrument pass through the frame cut-outs of the upper instrument. After firmly screwing the upper instrument to the connection pieces, the side panels should be replaced.

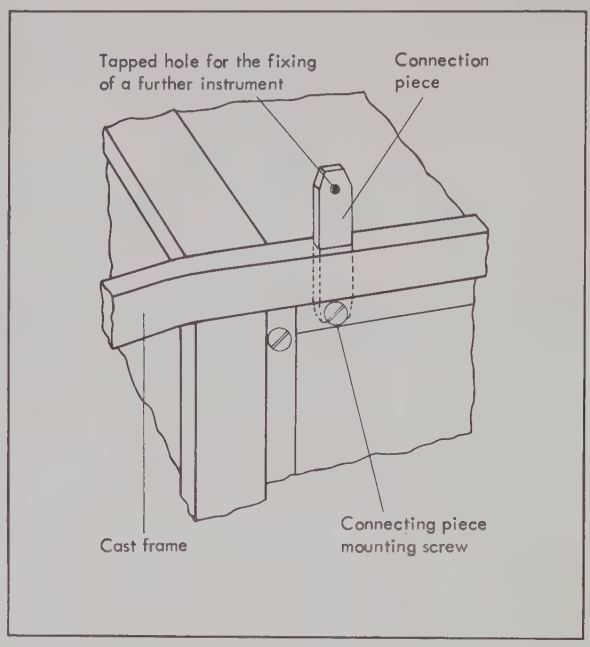


Fig. 5-3

5.7. Shipping instructions

Safe transportation of the measuring equipment can only be guaranteed if adequate packing is used. If the original packing has been discarded, the equipment should only be packed as shown in the following drawing, Fig. 5-4.

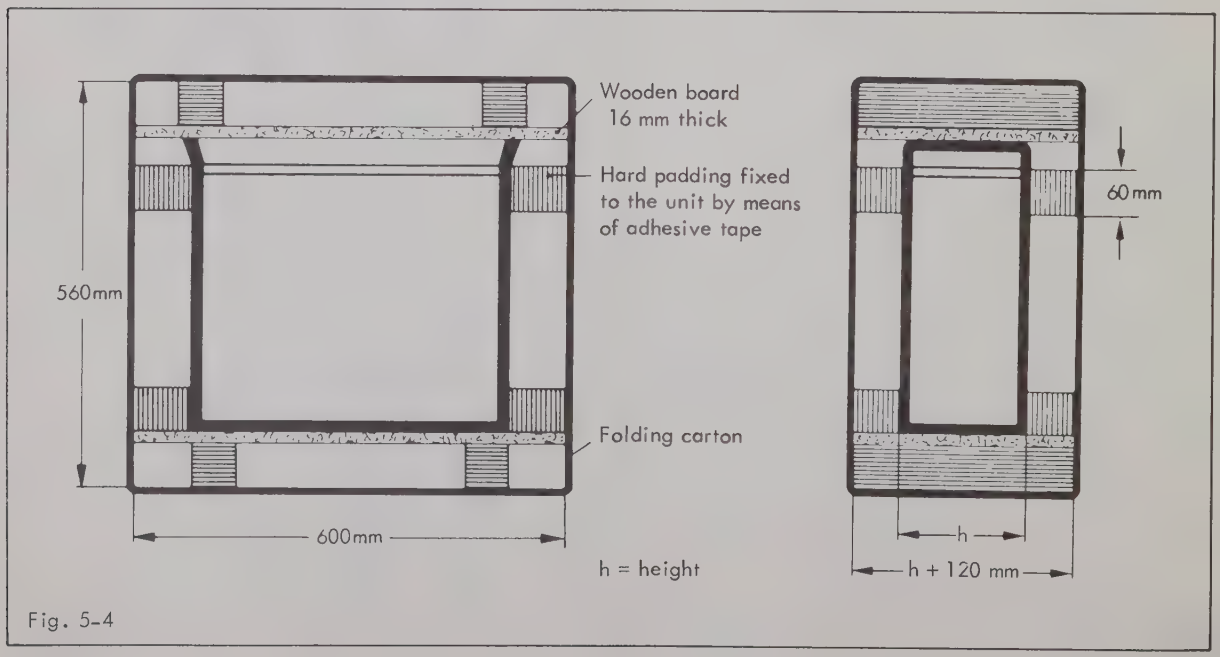


Fig. 5-4

APPENDIX

INHALT/CONTENTS

Anmerkungen zu den Stromlaufplänen

Blockschaltpläne PS-60, BN 610 und BN 610/1
PSS-60, BN 610/2 und BN 610/3

Stromlaufpläne und Bestückungszeichnungen
für die Pegelsender PS-60 und PSS-60

Wörterverzeichnis Deutsch-Englisch zur Schaltteilliste

Schaltteillisten PS-60, BN 610

Änderungen der Schaltteilliste für BN 610/1, 610/2 und 610/3

Circuit diagram details

Block diagrams PS-60, BN 610 and BN 610/1
PSS-60, BN 610/2 and BN 610/3

Circuit diagrams and component plans
for the Level Generators PS-60 and PSS-60

Glossary German-English for the parts lists

Parts lists PS-60, BN 610

Modifications from BN 610 to BN 610/1, 610/2 and 610/3

Anmerkung/Remark

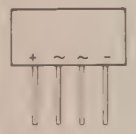
Die Stromlaufpläne sowie die Schaltteillisten sind nach den Kennziffern der Baugruppen geordnet. Diese Ziffern lassen sich dem Blockschaltplan entnehmen.

The circuit diagrams as well as the parts lists are arranged according to the identifying numbers of the modules. These numbers permit the block diagram to be numbered accordingly.

Dioden (Diodes)

BAY 17, BAY 72, BB 109 G, DGA 5, Hp 5082-2800, Hp 5082-2811, MV 1648, OA 182, ZPD 15, 1 N 4448, 1 N 4611

ZY 62, ZY 200



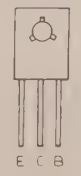
B 40 C 600 Si, B 40 C 3200/2200, B 250 C 600 Si

Transistoren (Transistors)

BCY 59 D, BCY 78 D, BFX 48, BFX 59, BFX 93, BFY 84, BSX 27, BSX 29, BSX 45-16, BSX 88, BSX 93, DW 7154, 2 N 708, 2 N 2784, 2 N 3209, 2 N 3960, 2 N 3440

BFX 73
2 N 4261
BFY 90

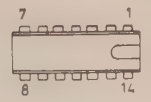
BFR 37



MJE 3055

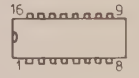
BFY 81

Integrierte Schaltkreise (Integrated circuits)



Draufsicht (Top view)

CD 4001 AE, CD 4011 AE, CD 4024 AE, SN 74 L 00 N, SN 74 L 02 N, SN 74 L 10 N, SN 74 LS 74 N, SN 74 S 112 N, SN 7404 N, SN 7410 N, SN 7413 N, SN 7451 N, SN 7490 N, SN 7490 N S 1



CD 4017 N, CD 4027 N, CD 4029 AE, DO 700, MC 14518 CL, SN 74 L 75 N, SN 4929 N, SN 7476 N

µA 741 C

L 123 T 1

Röhren (Tubes)

Äquivalenzliste für Transistoren (Transistor equivalents)

2 N Typ/äquivalente Proelektron Bezeichnung
2 N Type/äquivalent Proelektron designation

2 N 708 / BSX 88	2 N 2222 / BFX 95
2 N 918 / BFX 73	2 N 2368 / BSX 92
2 N 930 / BFX 93	2 N 2369 / BSX 93
2 N 1613 / BFX 69	2 N 2484 / BFX 93 A
2 N 1893 / BFW 33	2 N 3964 / BFW 22
2 N 2219 / BFX 97	

Sollten die Werte bestimmter Bauelemente in den Stromlaufplänen und Schaltteillisten differieren, so sind stets die Angaben in den Schaltteillisten als verbindlich anzusehen.

If the values of individual components listed in the circuit diagrams and component lists should differ from another, those values given in the component lists are valid.

Abkürzungsbeispiele (Abbreviations examples):

(14) Y14	= Stromlaufplan 14 (Circuit diagram 14)
375-M	= Leiterplatte M (Circuit board M)
Pkt. 6	= Anschlußpunkt 6 (Connection point 6)
TP 401	= Testpunkt 401 (Test point 401)
1)...9)	= Anmerkungen (Notes)
10)...	= Englische Übersetzung (English translation)

Farbkennzeichnung (Colour coding)

bl	blau	blue
blank	blank	bare wire
br	braun	brown
fl	farblos	transparent
ge	gelb	yellow
gn	grün	green
gr	grau	grey
rs	rosa	pink
rt	rot	red
Schirm	Schirm	screening
sw	schwarz	black
vio	violett	violet
ws	weiß	white
grrt	grau/rot	grey/red

geschirmte Leitung	Screened lead
blanker Draht	Bare wire

Belastbarkeit der Widerstände oder Größenbezeichnung nach DIN 44 050 ff

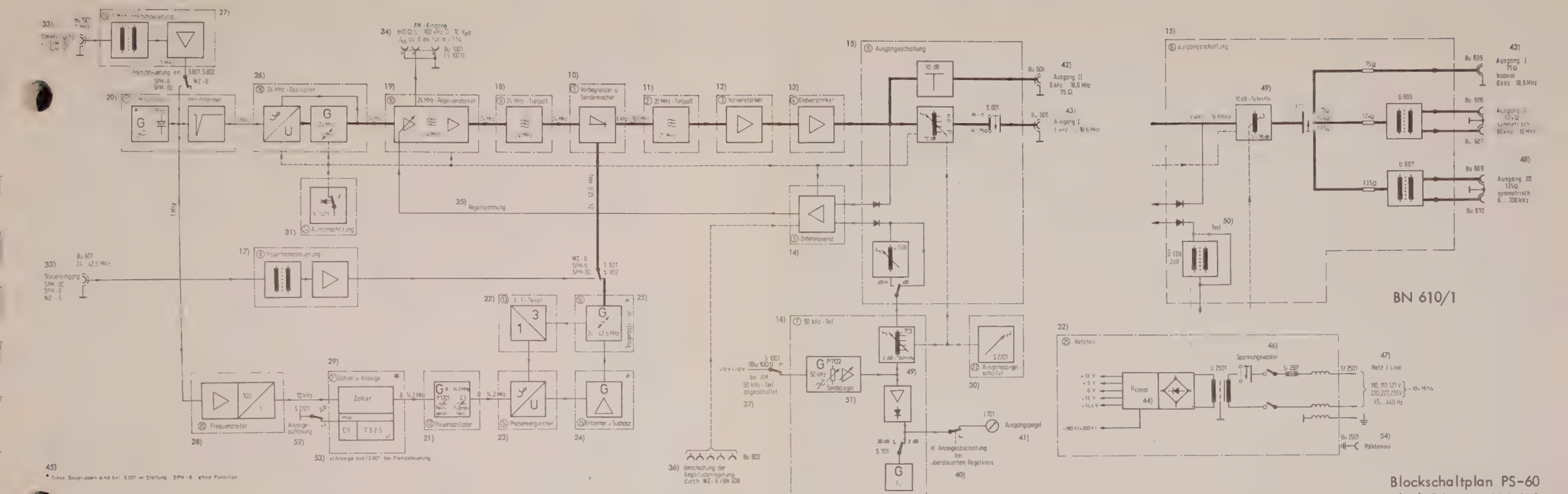
Resistor ratings or size corresponding to German Standard DIN 44 050 ff

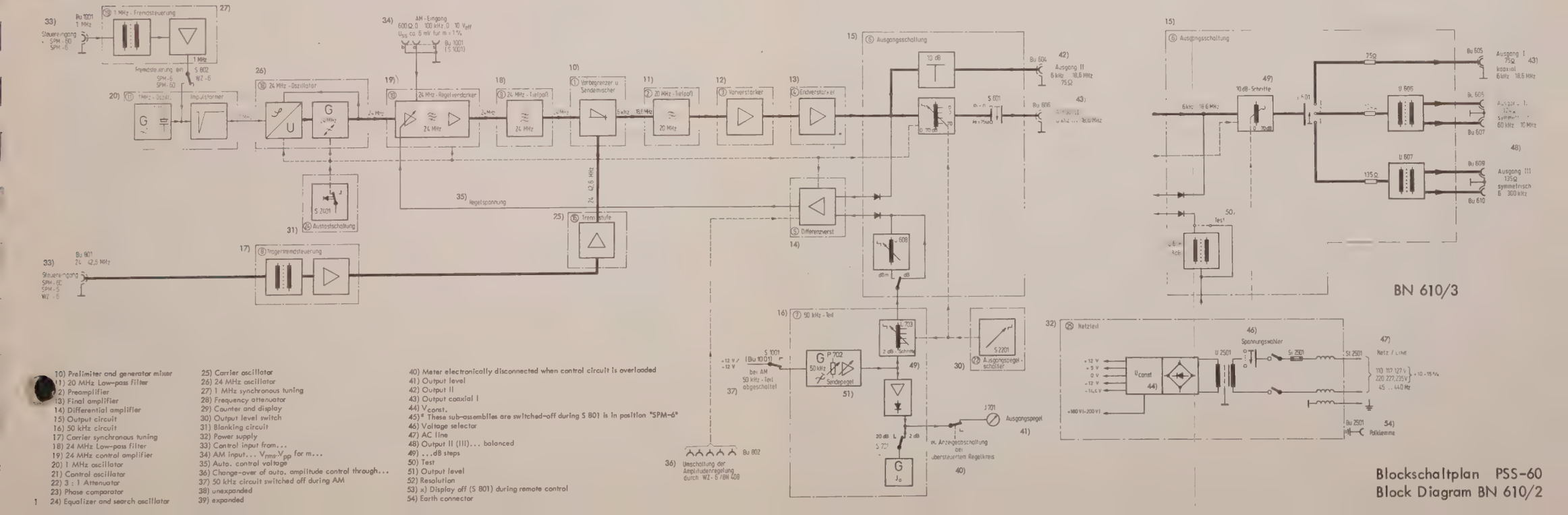
Alle angegebenen Spannungen sind mit einem Instrument 100 kΩ/V gegen 0 V gemessen

All voltage ratings measured with respect to 0 V with 100 kΩ/V meter

Relais in Ruhestellung dargestellt
Relays shown in rest position

Anmerkungen
zu den Stromlaufplänen
Circuit Diagram Details

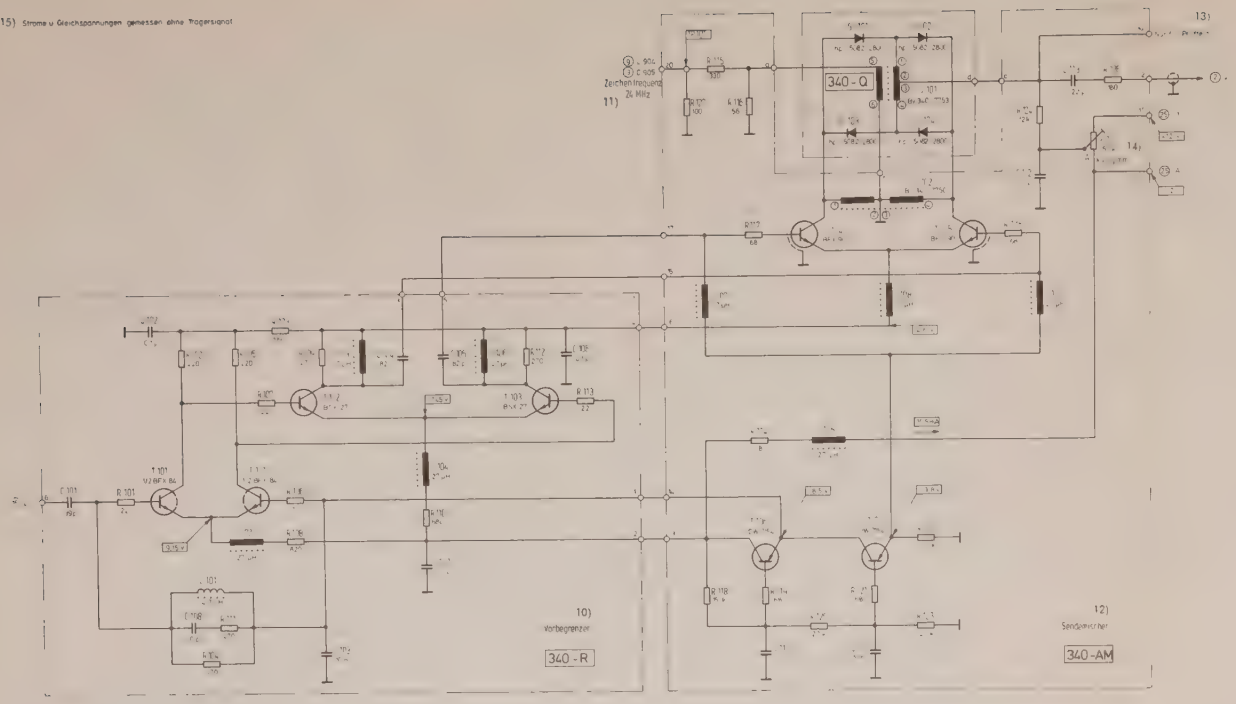


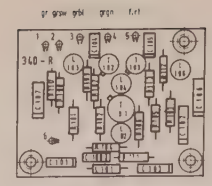


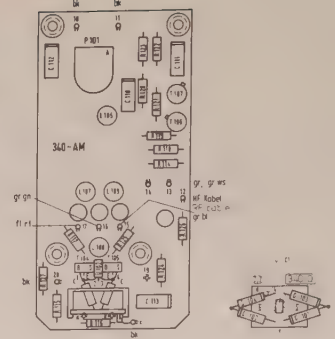
10) Prelimiter and generator mixer
11) 20 MHz Low-pass filter
12) Preamplifier
13) Final amplifier
14) Differential amplifier
15) Output circuit
16) 50 kHz circuit
17) Carrier synchronous tuning
18) 24 MHz Low-pass filter
19) 24 MHz control amplifier
20) 1 MHz oscillator
21) Control oscillator
22) 3 : 1 Attenuator
23) Phase comparator
24) Equalizer and search oscillator
25) Carrier oscillator
26) 24 MHz oscillator
27) 1 MHz synchronous tuning
28) Frequency attenuator
29) Counter and display
30) Output level switch
31) Blanking circuit
32) Power supply
33) Control input from...
34) AM input... V_{rms}-V_{pp} for m...
35) Auto. control voltage
36) Change-over of auto. amplitude control through...
37) 50 kHz circuit switched off during AM
38) unexpanded
39) expanded
40) Meter electronically disconnected when control circuit is overloaded
41) Output level
42) Output II
43) Output coaxial I
44) $V_{const.}$
45)* These sub-assemblies are switched-off during S 801 is in position "SPM-6"
46) Voltage selector
47) AC line
48) Output II (III)... balanced
49) ...dB steps
50) Test
51) Output level
52) Resolution
53) x) Display off (S 801) during remote control
54) Earth connector

15) Ströme u Gleichspannungen gemessen ohne Trägersignal

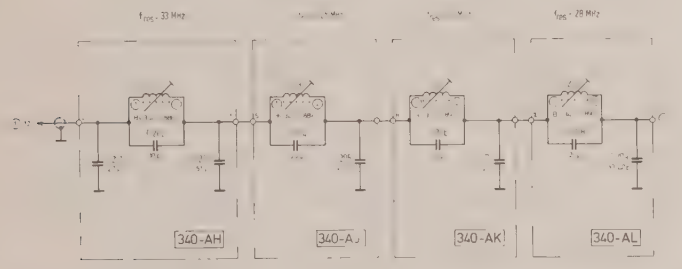
10) Pre-limiter
11) Signal frequency
12) Generator mixer
13) Only done at factory
14) 2nd harmonic suppression
15) Currents and DC voltages measured without carrier signals

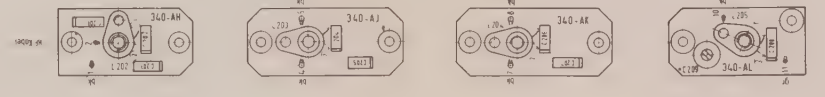




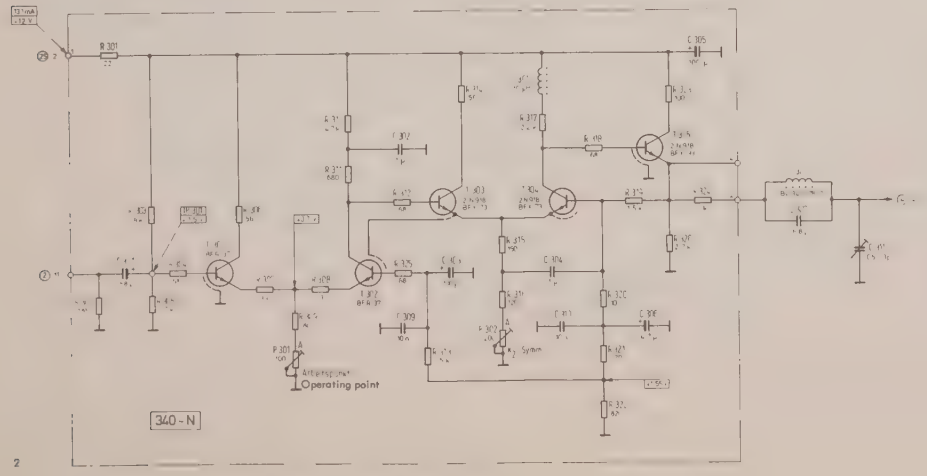


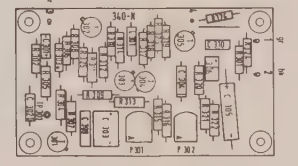
Vorbegrenzer, Sendemischer PS-60
Prelimiter, Generator Mixer BN 610 (1)



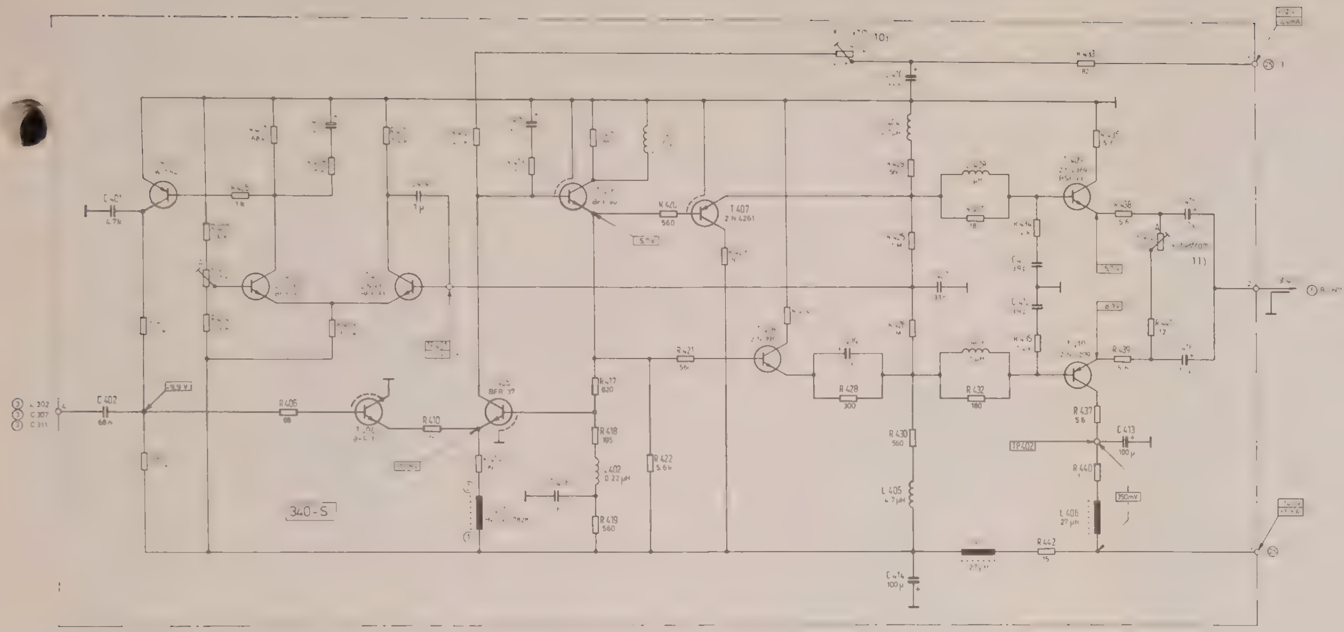


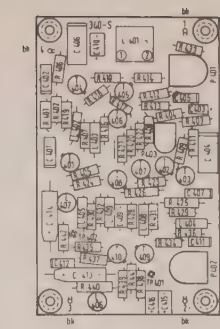
20-MHz-Tiefpaß PS-60
20 MHz low-pass Filter BN 610 (2)





Vorverstärker PS-60
Preamplifier BN 610 (3)

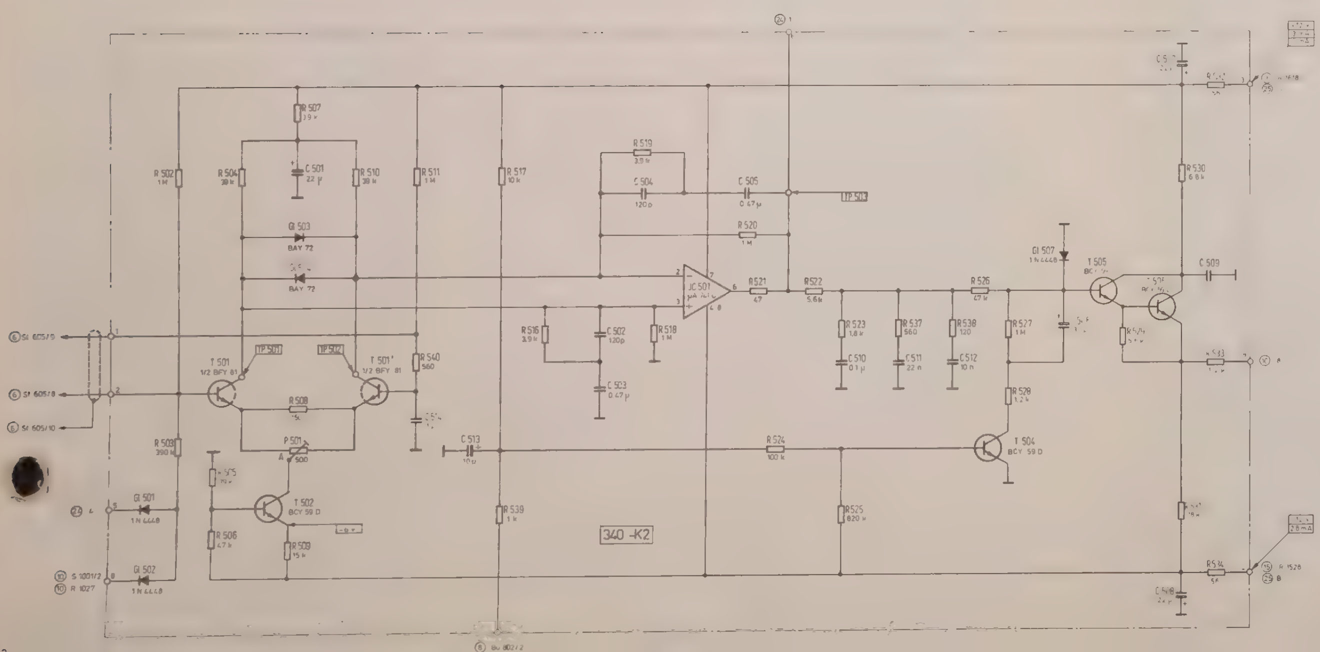


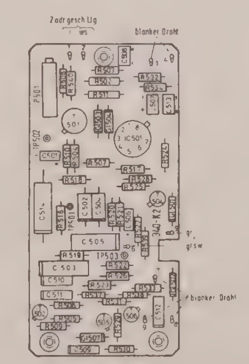


10) 2nd harmonic suppression
11) Quiescent current
12) x) Voltmeter must have an impedance of ≧
13) The given voltages are valid with V = - 7 V at the base of...?

12) x) Bereich des Meßinstruments mit Ri ≥ 3 MΩ
13) Die angegebenen Spannungen gelten für U= -7 V an der Basis von T 402

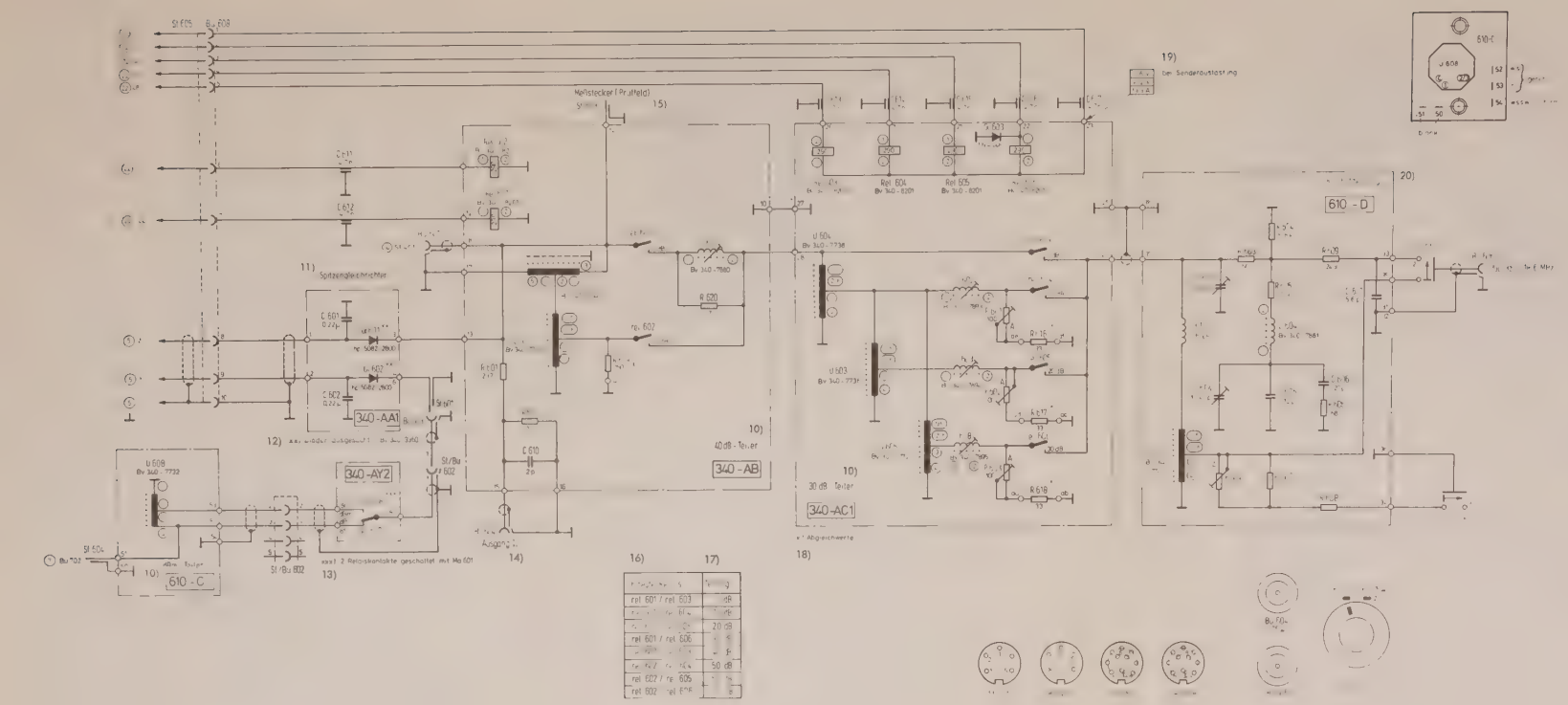
Endverstärker PS-60
Final Amplifier BN 610 (4)

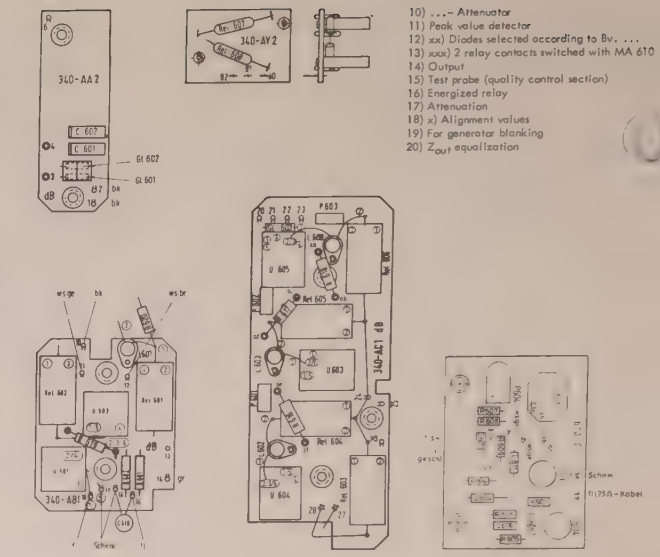

340 -K2
R 502
1 M
R 503
390 k
R 504
39 k
R 507
3.9 k
C 501
22 µ
R 510
39 k
R 511
1 M
R 517
10 k
Gl 503
BAY 72
BAY 72
T 501
1/2 BFY 81
T 501'
1/2 BFY 81
TP 501
TP 502
R 508
R 540
560
P 501
500
T 502
BCY 59 D
R 506
4.7 k
R 509
15 k
Gl 501
1 N 4448
Gl 502
1 N 4448
S 1001/2
R 1027
R 539
1 k
C 513
10 µ
R 516
3.9 k
C 502
120 p
C 503
0.47 µ
R 518
1 M
R 519
3.9 k
C 504
120 p
C 505
0.47 µ
R 520
1 M
IC 501
R 521
47
TP 503
R 522
5.6 k
R 523
1.8 k
C 510
0.1 µ
R 537
560
C 511
22 n
R 538
120
C 512
10 n
R 526
47 k
R 527
1 M
R 528
1.2 k
R 524
100 k
R 525
820 k
T 504
BCY 59 D
Gl 507
1 N 4448
T 505
C 509
R 530
6.8 k
R 534
56
28 mA
R 1528



x) Bei 0 V an Pkt 9 entsprechend Stellung „schnell" des Regelkreises
x) For 0 V at point 9, corresponding to position "fast" of the control circuit

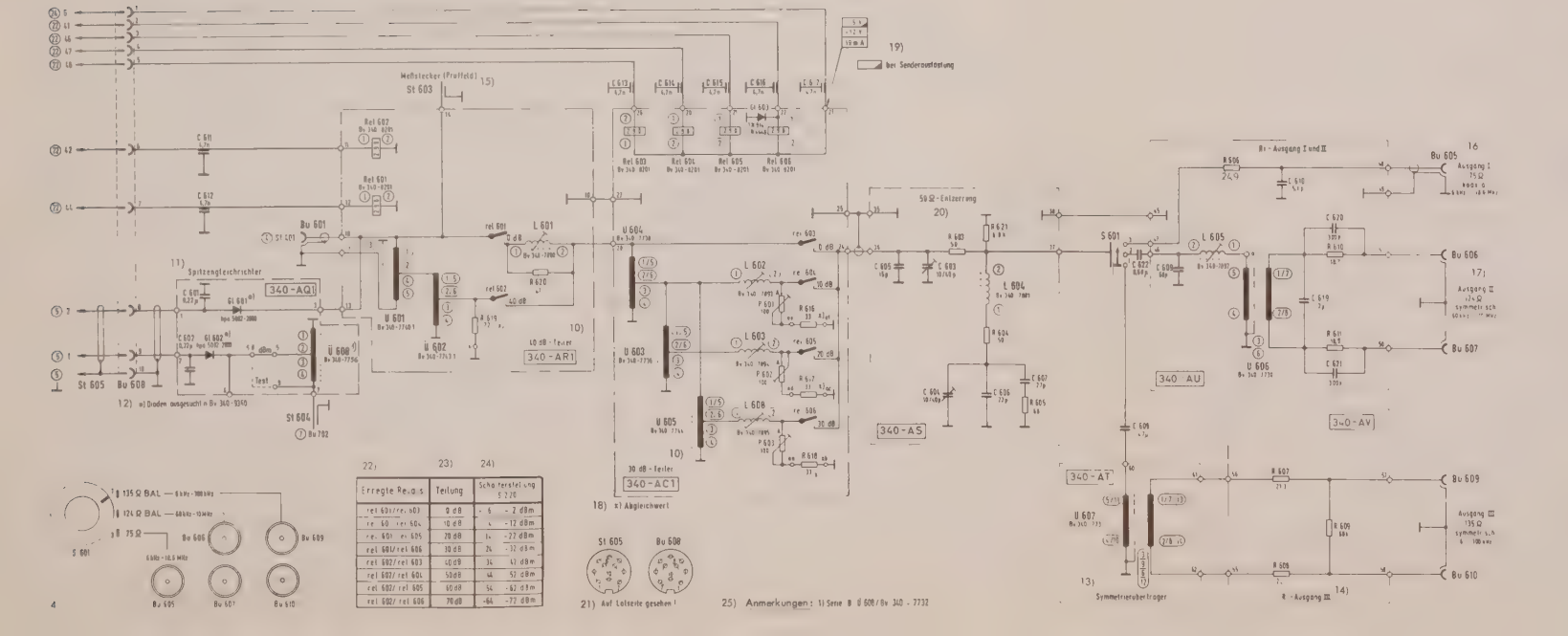
Differenzverstärker PS-60
Differential Amplifier BN 610 (5)



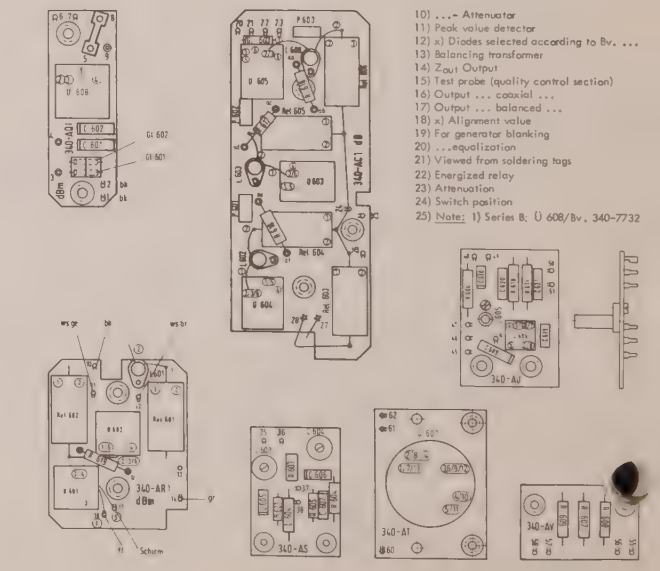


10) ...- Attenuator
11) Peak value detector
12) xx) Diodes selected according to Bv. ...
13) xxx) 2 relay contacts switched with MA 610
14) Output
15) Test probe (quality control section)
16) Energized relay
17) Attenuation
18) x) Alignment values
19) For generator blanking
20) Z_{out} equalization

Ausgangsschaltung dB/dBm PS-60
Output Circuit dB/dBm BN 610 (6)



Erregte Relais	Teilung	Schalterstellung S 270
rel 601/rel 603	0 dB	- 2 dBm
rel 601/rel 604	10 dB	- 12 dBm
rel 601/rel 605	20 dB	- 22 dBm
rel 601/rel 606	30 dB	- 32 dBm
rel 602/rel 603	40 dB	- 42 dBm
rel 602/rel 604	50 dB	- 52 dBm
rel 602/rel 605	60 dB	- 62 dBm
rel 602/rel 606	70 dB	- 72 dBm



10) ...- Attenuator
11) Peak value detector
12) x) Diodes selected according to Bv. ...
13) Balancing transformer
14) Z_{out} Output
15) Test probe (quality control section)
16) Output ... coaxial ...
17) Output ... balanced ...
18) x) Alignment value
19) For generator blanking
20) ...equalization
21) Viewed from soldering tags
22) Energized relay
23) Attenuation
24) Switch position
25) Note: 1) Series B: U 608/Bv. 340-7732

Ausgangsschaltung dBm PS-60
Output Circuit dBm BN 610/1 (6)

10) Scale
11) Min. ...– level
12) Max. ...– level
13) Output level
14) ... indication
15) Rectifier stage
16) Amplification expanded
17) Amplification unexpanded
18) ... current generator
19) ... current
20) ... – section
21) x) values in the "unexpanded" mode xx) T 723 conducting

21) x) Werte gelten bei Getriebsart ungedehnt; xx) T 723 eingeschaltet

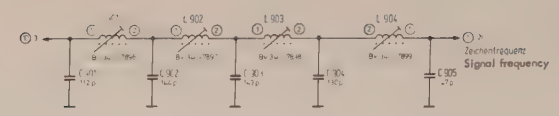
50-kHz-Teil (dB) PS-60
50 kHz Circuit (dB) BN 610 (7)

BN 610/2

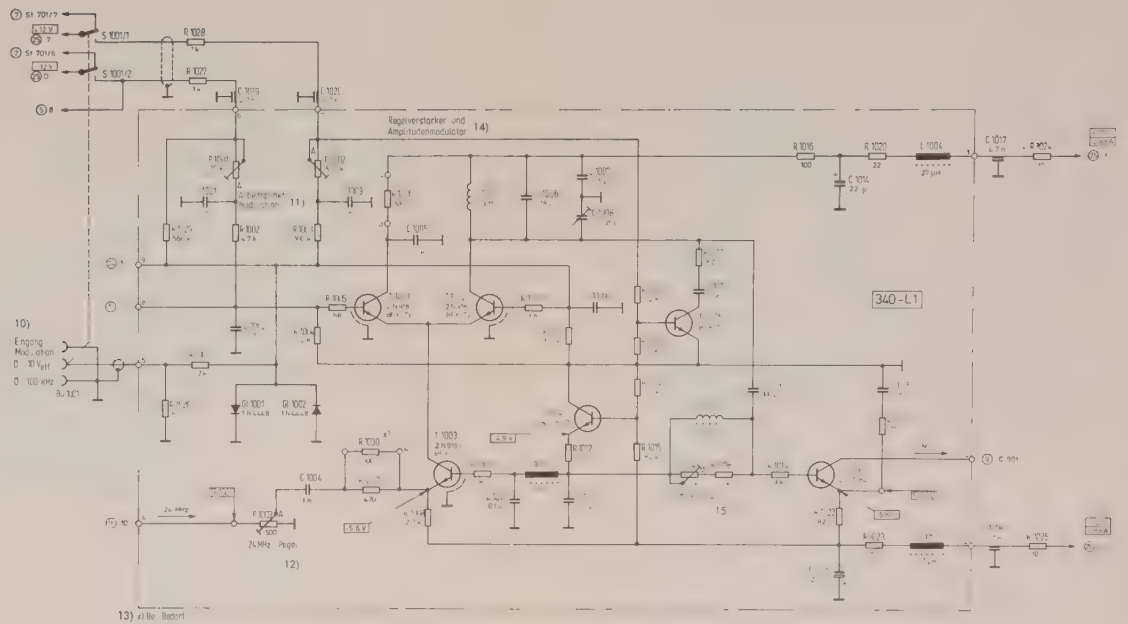
13) Spannungen u. Ströme gelten bei Fremdsteuer - Betrieb

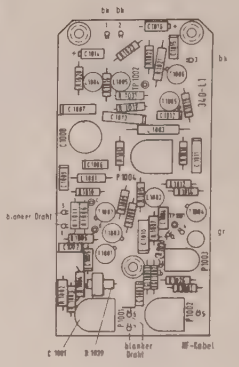
10) Synchronous input
11) x) ... are shown in circuit diagram...
12 to ...
13) Voltages and current values are valid in the synchronous tuning mode

Trägerfremdsteuerung PS-60
Carrier Synchronous Tuning BN 610 (8)



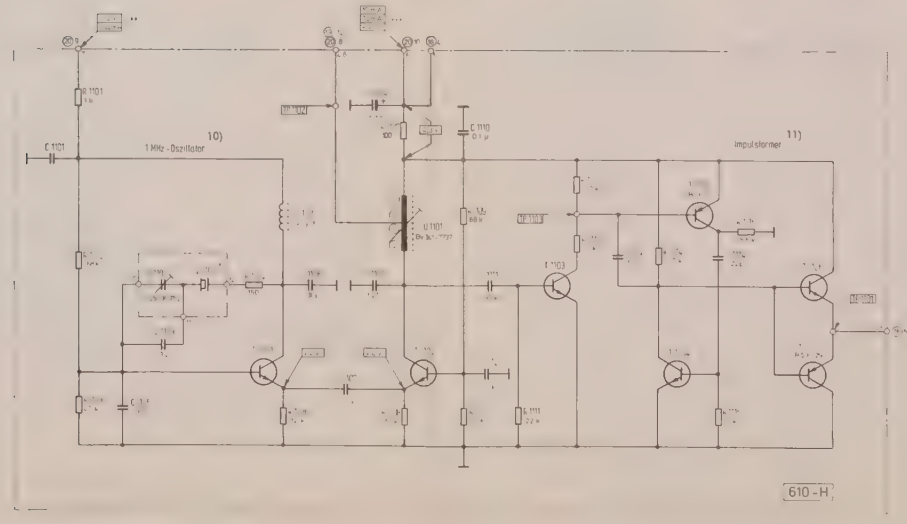
24-MHz-Tiefpaß PS-60
24 MHz Low-pass Filter BN 610 (9)

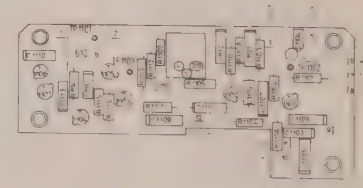




10) Input modulation
11) Operation point
12) ...- level
13) x) When necessary
14) Control amplifier and amplitude modulator
15) ... jump

24-MHz-Regelverstärker PS-60
24 MHz Control Amplifier BN 610 (10)

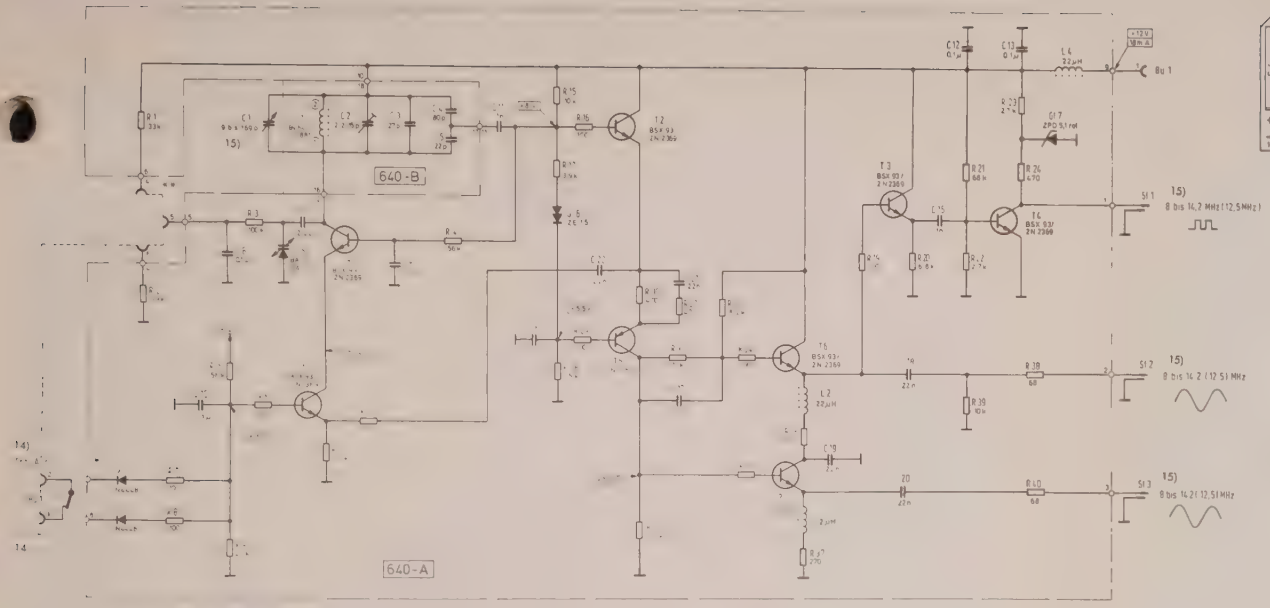


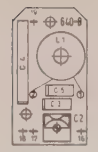


12) — x) Wahlweise nach Bv 361 8717 oder Bv 361-2703
13) — xx) + 12 V abgeschaltet bei Fremdsteuerung mit SPM-6 oder SPM-60
14) — xxx) Stromaufnahme bei Fremdsteuerung und bei Betrieb mit WZ-6
15) — Alle nicht bezeichneten Transistoren 2 N 2369 / BSX 21

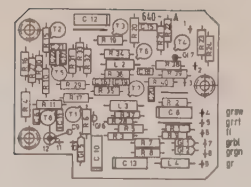
10) ...Oscillator
11) Pulse shaper
12) x) Choice according to Bv. ...or...
13) xx) switched off when remotely controlled with ... or ...
14) xxx) Current consumption during synchronous tuning and for the operation with...
15) All undesignated transistors

1-MHz-Oszillator, Impulsformer PS-60
1 MHz Oscillator, Pulse Shaper BN 610 (11)

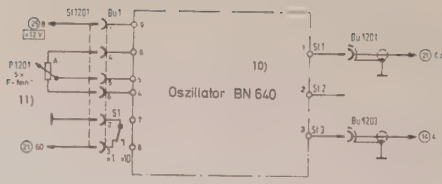




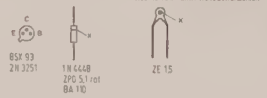
Pkt. 16,17,18,19 - blanke Brücke



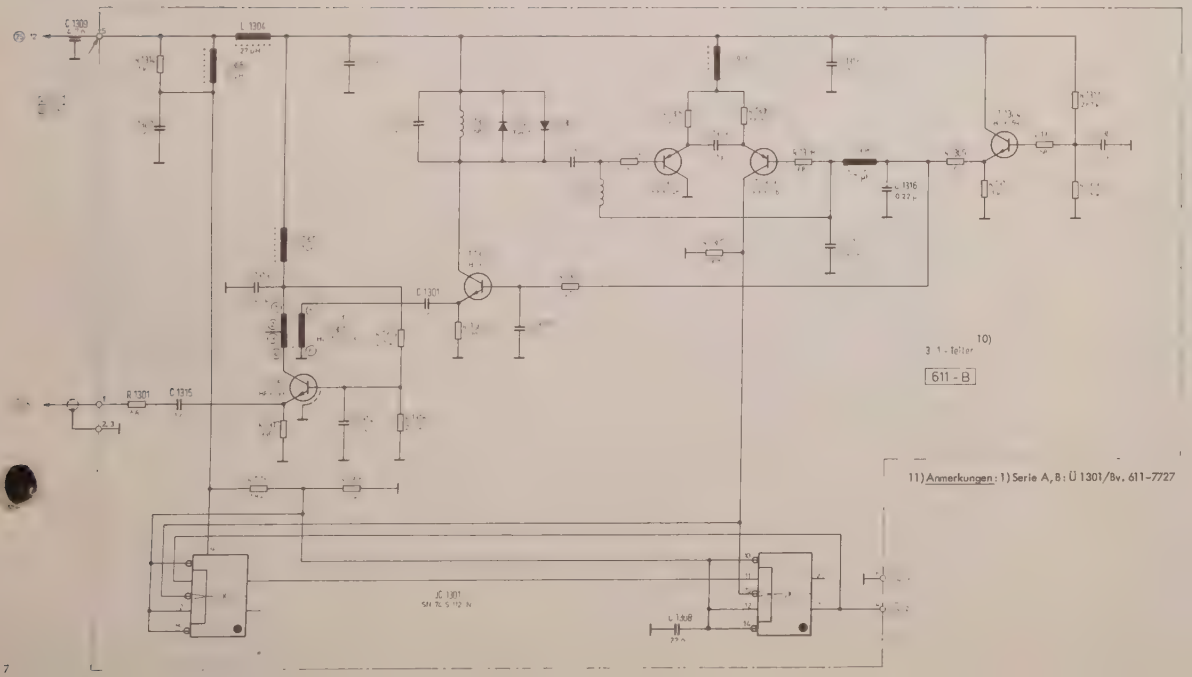
Pkt. 1,2,3,10,11,12 - blanke Brücke



10) Oscillator see...
11) "F-fine"
12) cathode connection to right of color dot
13) showing soldering tags
14) Oscillator "Out"
15) ...to...



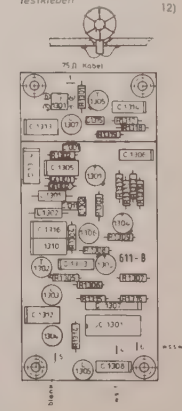
Steueroszillator PS-60
Control Oscillator BN 610 (12)



11) Anmerkungen: 1) Serie A, B: Ü 1301/Bv. 611-7727

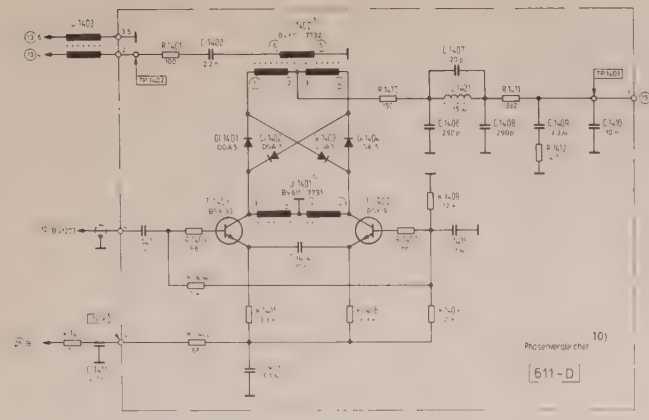
10) ... Divider
11) Notes: 1) Series A, B: Ü 1301/Bv. 611-7727
12) Transformer Ü 1301 fastened with RF lacquer in the countersunk hole

Übertrager Ü 1301 mit HF-Lack in der Senkung festkleben 12)

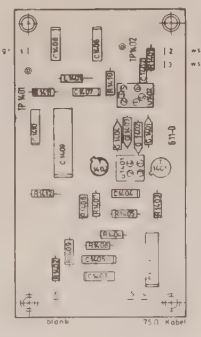


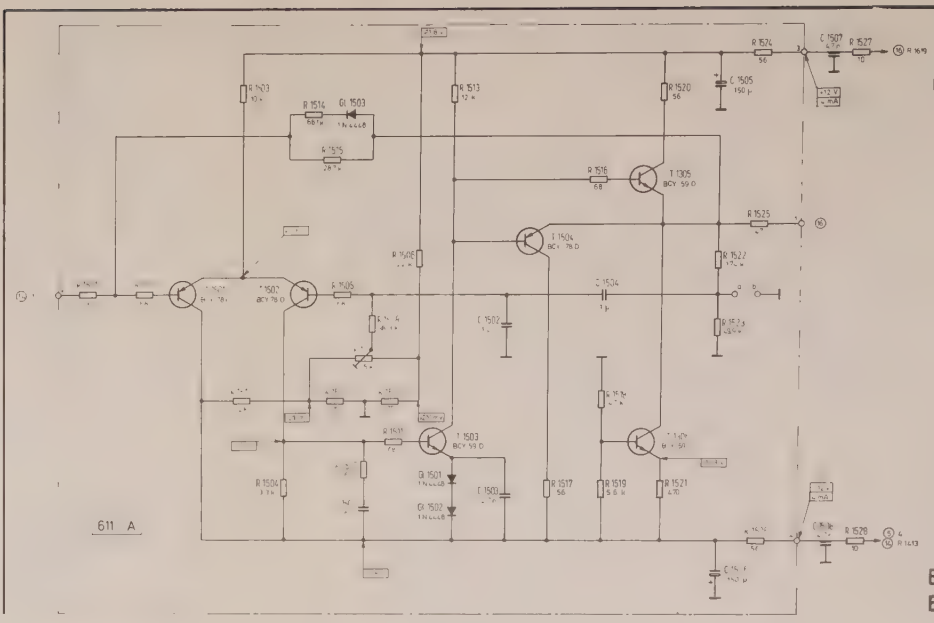
Teiler 3 : 1 PS-60
Divider 3 : 1 BN 610 (13)

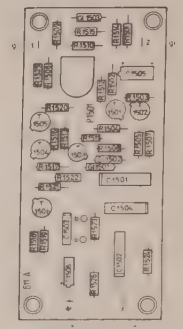
Phasenvergleicher PS-60
Phase Comparator BN 610 (14)



Übertrager Ü 1401, Ü 1402 mit HF-Lack in der Senkung festkleben 12)



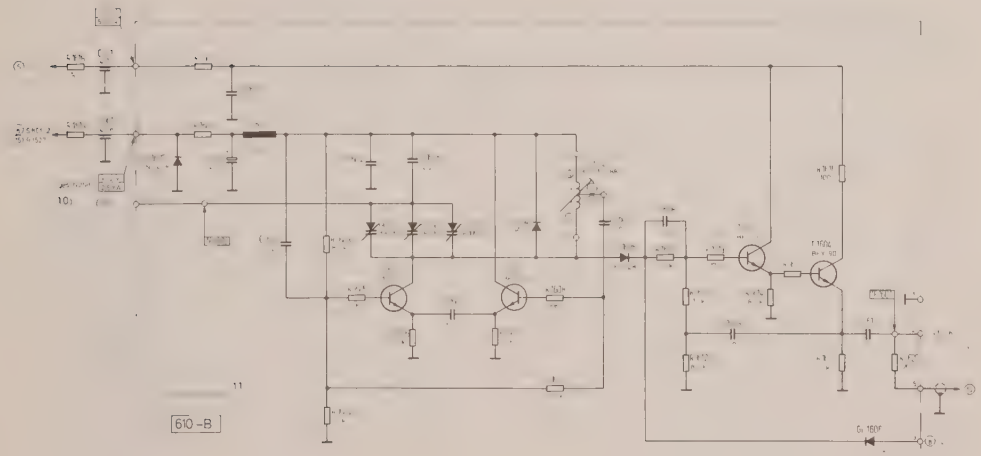




11) Anmerkungen: 1) Serie A, B: Ü 1401/Bv. 611-7728
Ü 1402/Bv. 611-7729

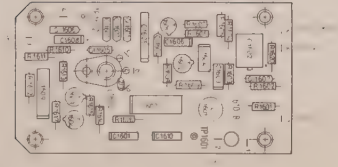
10) Phase comparator
11) Notes: 1) Series A, B: Ü 1401/Bv. 611-7728, Ü 1402/Bv. 611-7729
12) Transformer Ü 1401, Ü 1402 fastened with RF lacquer in the counter-sunk hole

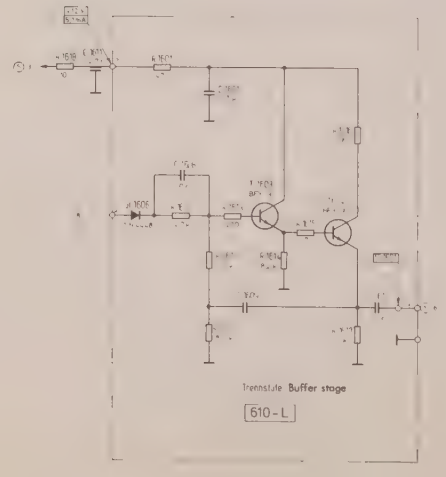
Entzerrer, Suchoszillator PS-60
Equalizer, Search Oscillator BN 610 (15)



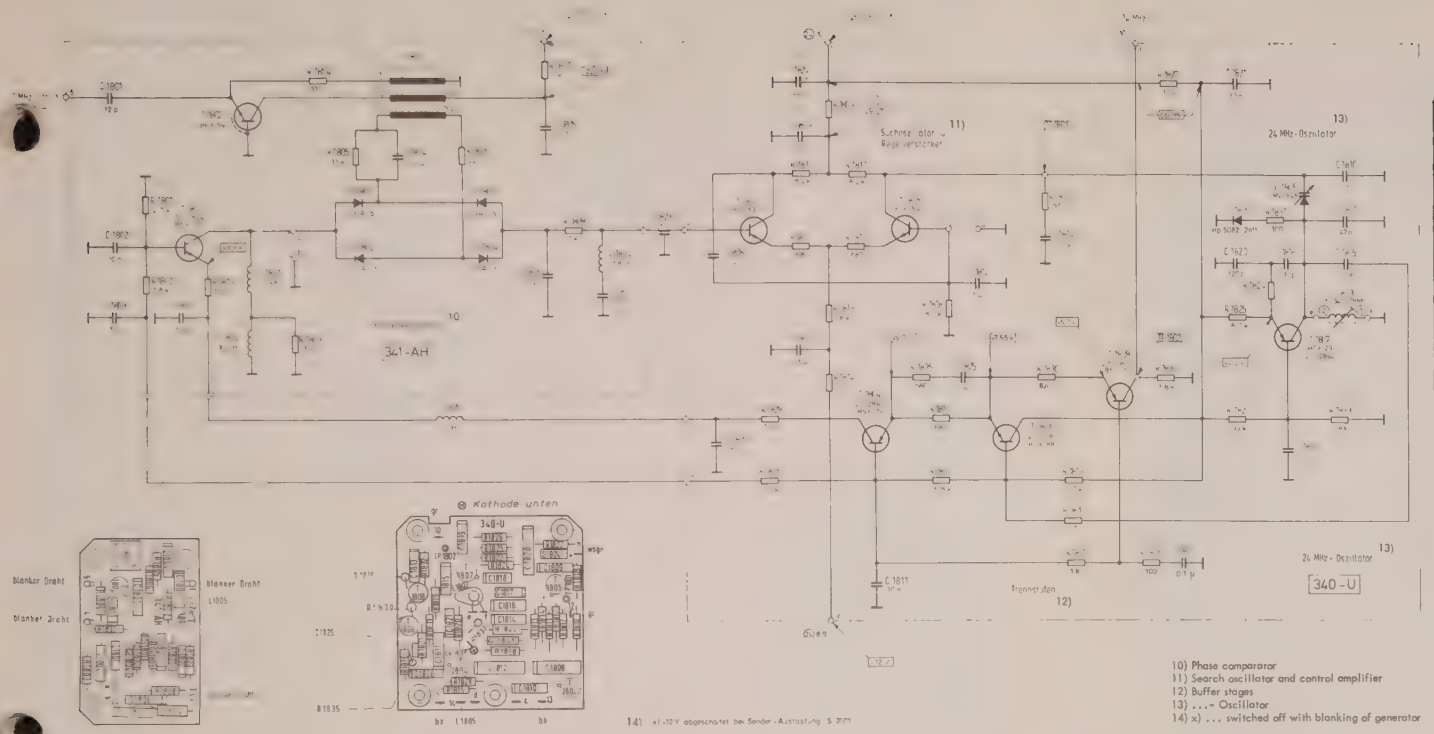
10) (Switched)
11) Carrier oscillator

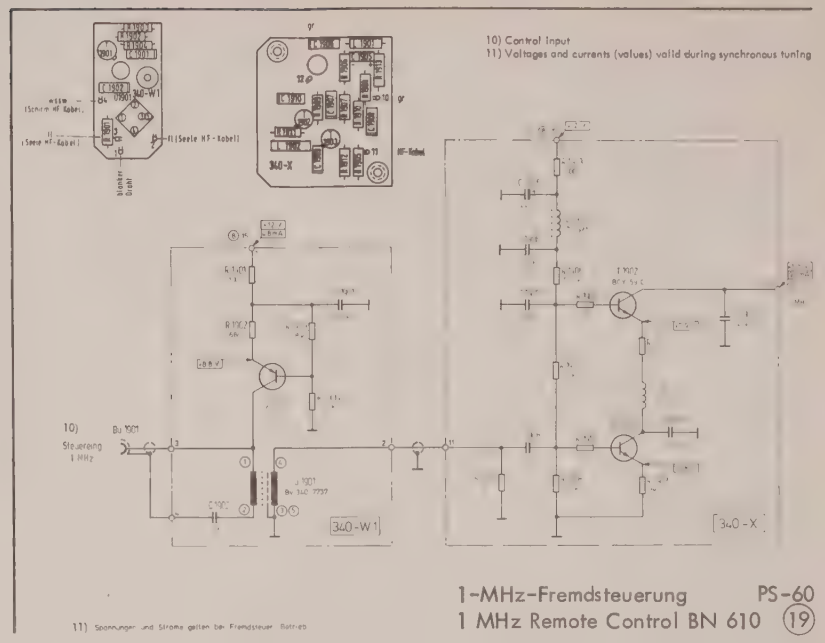
Trägeroszillator PS-60
Carrier Oscillator BN 610 (16)





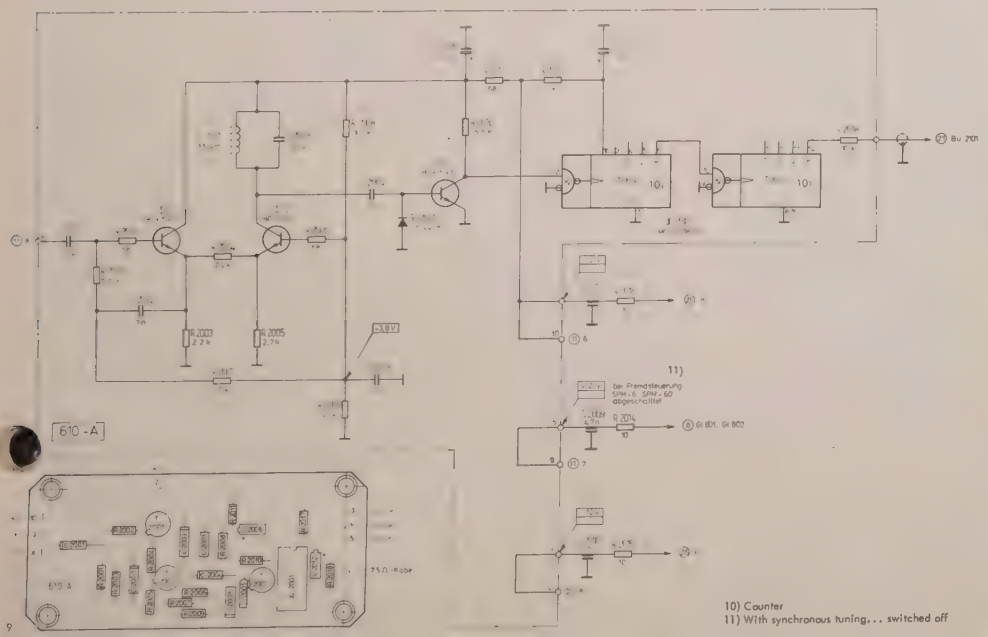
Trennstufe PSS-60
Buffer Stage BN 610/2 (16)



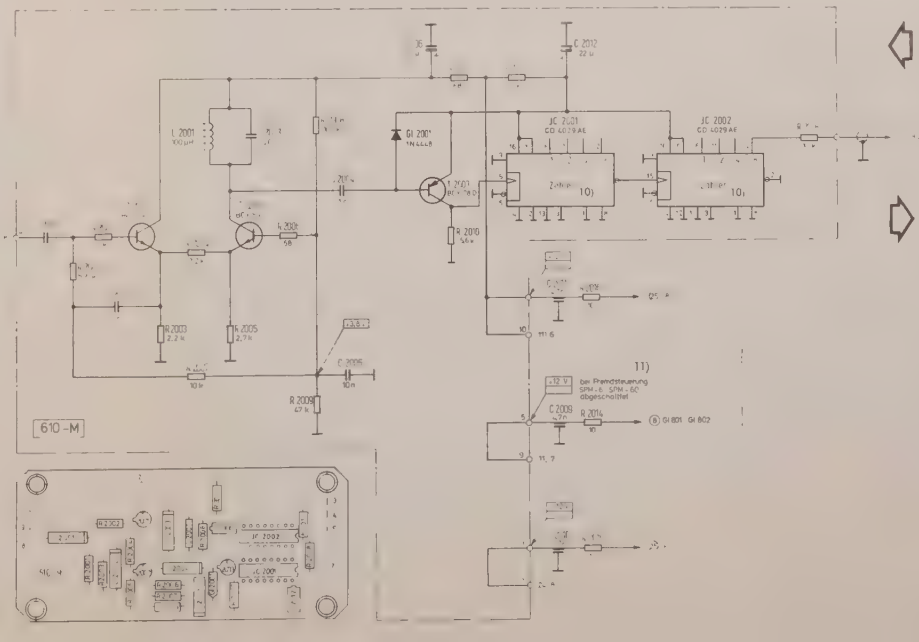


1-MHz-Fremdsteuerung PS-60
1 MHz Remote Control BN 610 (19)

Serie (Series) A,C...

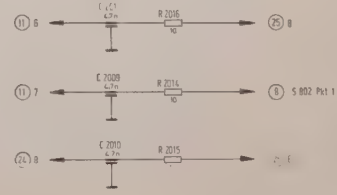


Serie (Series) B



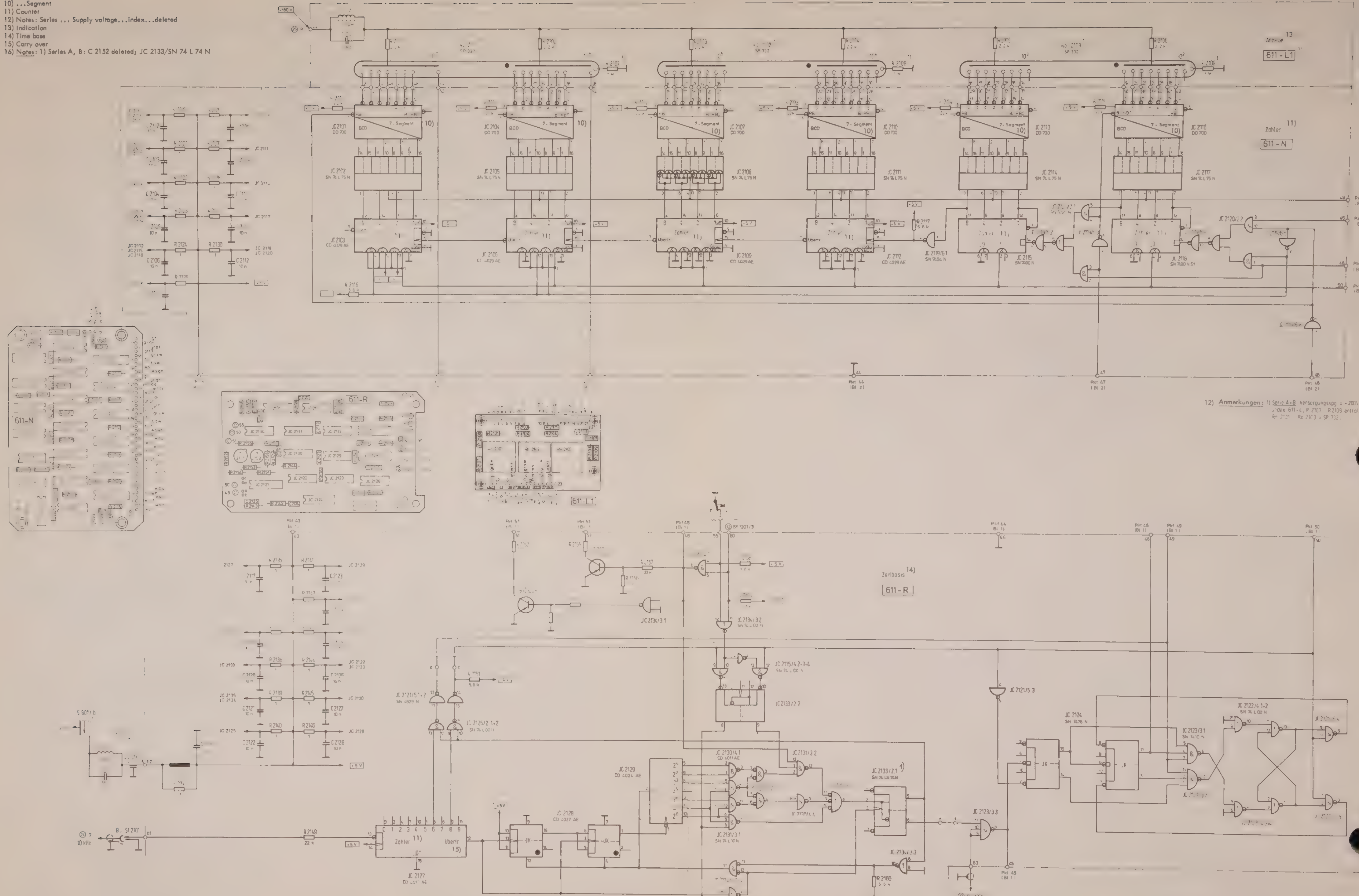
Serie (Series) A,C...
Frequenzteiler PS-60
Frequency Divider BN 610 (20)

Serie (Series) B
Frequenzteiler PS-60
Frequency Divider BN 610 (20)



Siebung PSS-60
Filtering BN 610/2 (20)

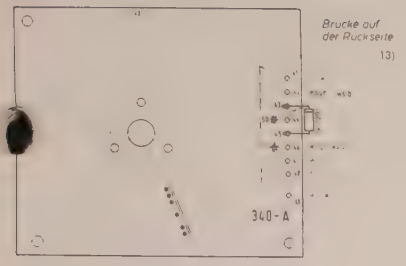
10) ...Segment
11) Counter
12) Notes: Series ... Supply voltage...index...deleted
13) Indication
14) Time base
15) Carry over
16) Notes: 1) Series A, B: C 2152 deleted; JC 2133/SN 74 L 74 N

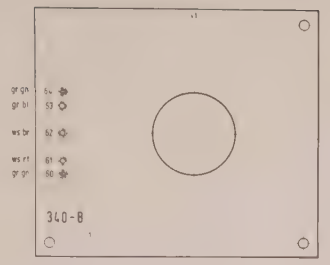


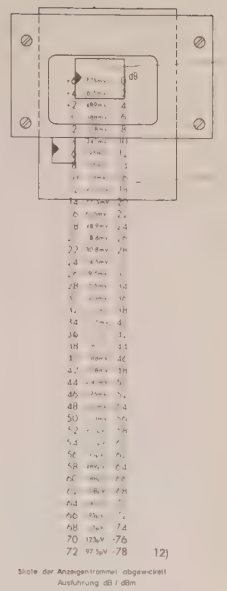
12) Anmerkungen: 1) Serie A+B Versorgungsspg = +200V, Index 611-L, R 2107 R 2109 entfallen, Rö 2101 Rö 2103 = SP 732.

16) Anmerkungen: 1) Serie A+B JC 2133 = SN 74 L 74 N.

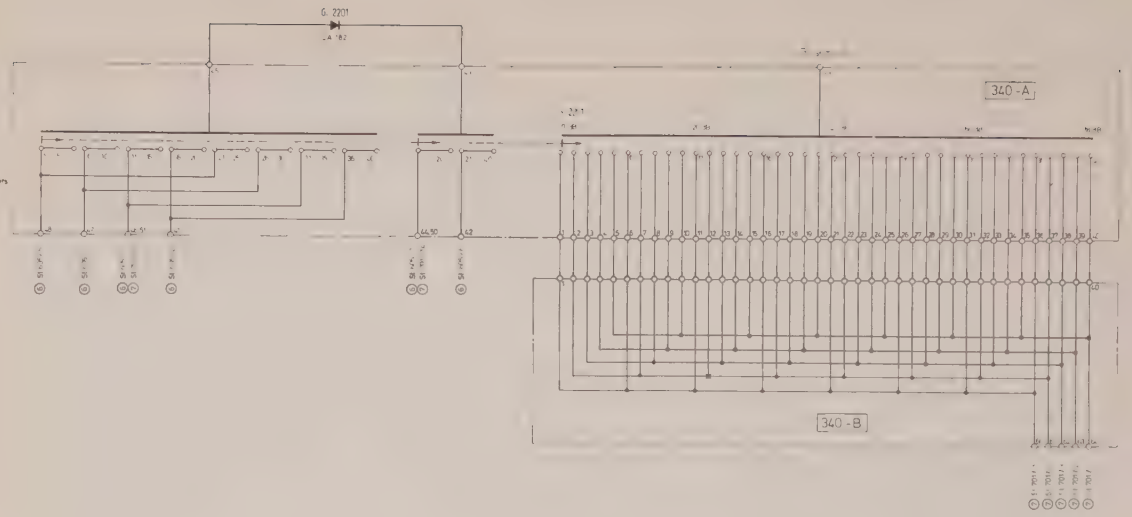
Zähler, Anzeige PS-60
Counter, Indication BN 610 (21)





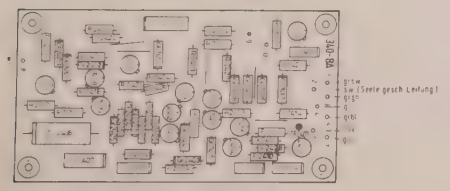


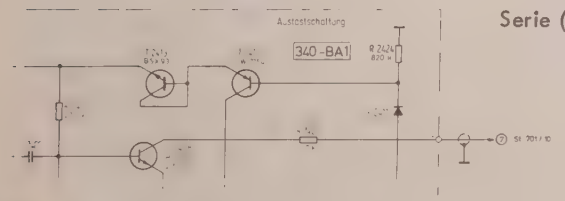
Skala der Anzeigentrommel abgewickelt
Ausführung dB / dBm



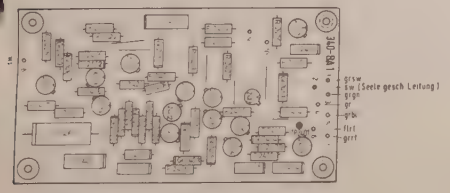
10) Slider in position dB
11) Through resetting slider dBm indication
12) Scale of indicator drum is unwound version dB, dBm
13) Bridge at rear

Ausgangspegelschalter PS-60
Output Level switch BN 610 (22)

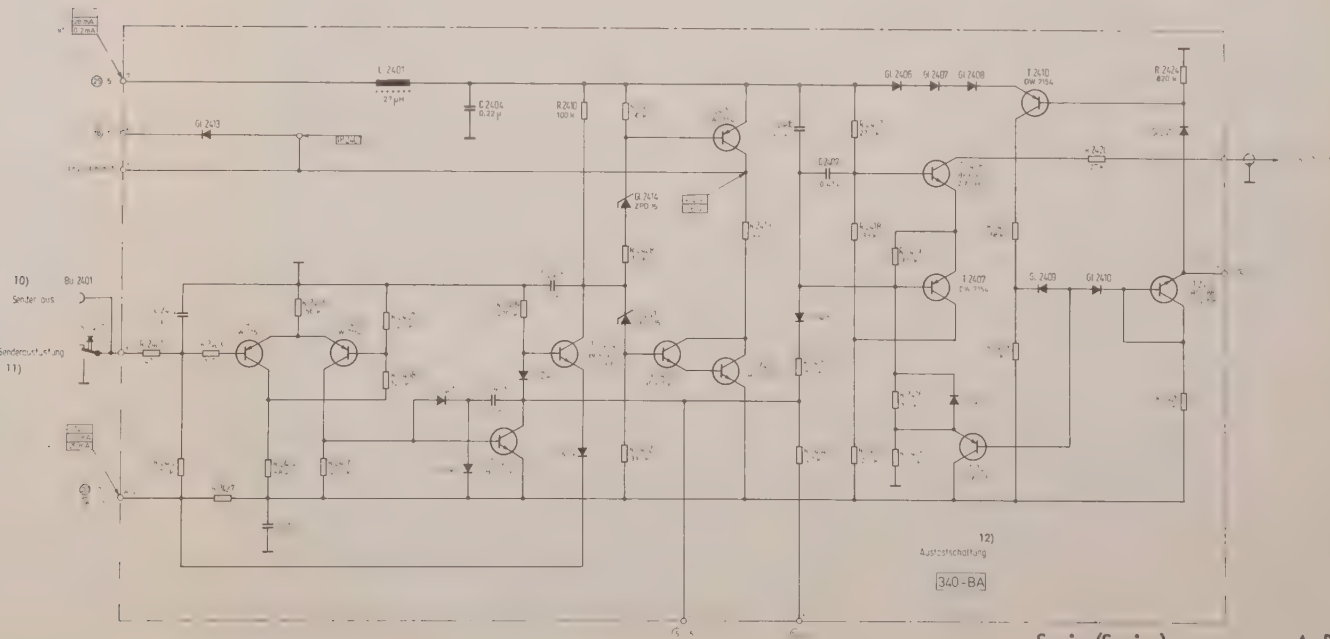




Serie (Series) C...



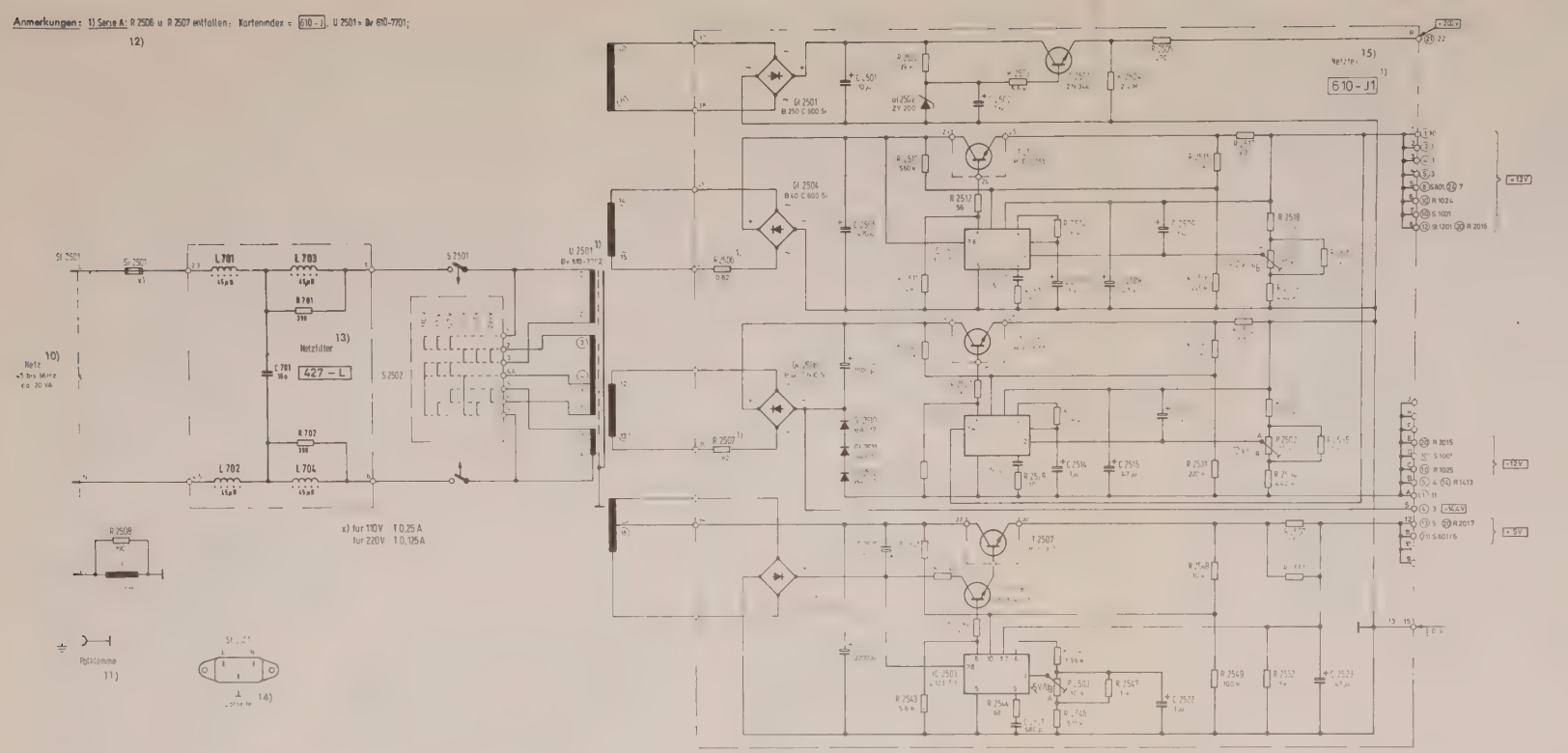
10) Generator out
11) Generator blanking
12) Blanking circuit
13) x) with blanking
14) All undesignated diodes

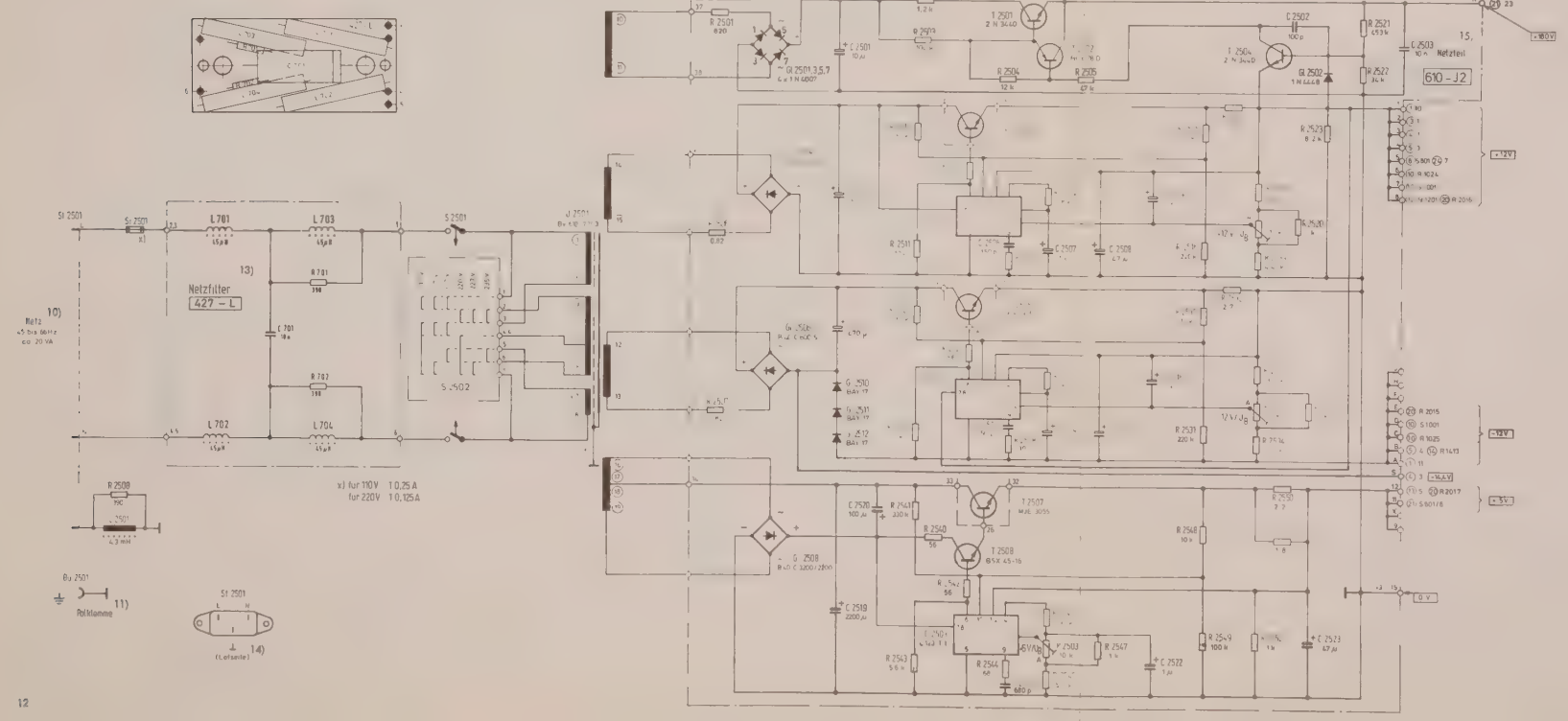


13) x) Bei Austastung
14) Alle nicht bezeichneten Dioden 1N 66 A

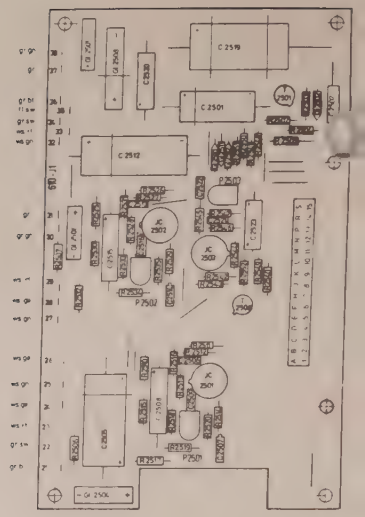
Serie (Series) A,B
Austastschaltung PS-60
Blanking Circuit BN 610 (24)

Anmerkungen: 1) Serie A: R 2506 u. R 2507 entfallen; Kartenindex = 610 - J, U 2501 = Bv 610-7701;
12)

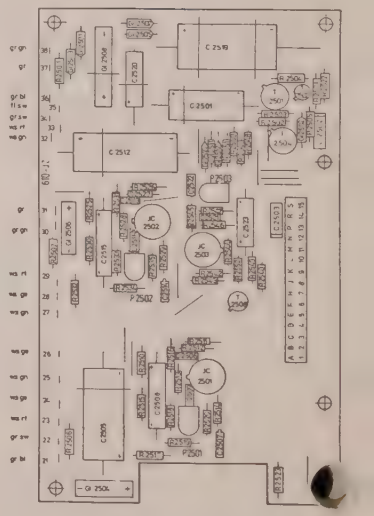




10) AC line
11) Ground terminal
12) Notes; Series...deleted...card file...
13) AC line filter
14) Soldering terminal side
15) Power supply



Serie (Series) A, B
Netzteil PS-6
Power Supply BN 610 (2)



Serie (Series) C...
Netzteil PS-60
Power Supply BN 610 (25)

Reihenfolge der Schaltteillisten (Sequence of the Parts lists) PS-60

Normalausführung (Standard version): BN 610

Änderungen für (Modifications for) : BN 610/1, BN 610/2, BN 610/3

Wörterverzeichnis Deutsch-Englisch Glossary German-English

Abgleichwert	Alignment value
Abgleichwert bei Bedarf	Alignment value, as needed
Achsl., Achslg.	Shaft length
Anmerkungen	Notes
Anzeige	Indication
ausgesucht nach Bv...	Selected according to Bv...
bei Bedarf	as needed
Bemerkungen	Notes
Benennung	Identification
Bestellangaben	Ordering information
Bezeichnung	Designation
Buchse	Socket
Buchsl.	bushing length
Der erforderliche L-Wert richtet sich nach dem L-Wert von Ü 102: für...	The required L-value is selected according to the L-value of Ü 102: for...
Diode	Diode
Drehko	Variable capacitor
Elektrische Werte	Electrical values
Elko	Electrolytic capacitor
entfällt	deleted
enthalten in Bu...	contained in Bu...
Glimmer-Kondens.	Mica capacitor
G-Schmelzeinsatz	Equipment fuse-element
hartvergoldet	hard gold-plated
Heißleiter	NTC resistor
Hersteller	Manufacturer
Instrument	Meter
Ker.-Kondensator	Ceramic capacitor
Kf.-Kondensator	Metalized film capacitor
Kontakte (2 Ebenen) kurzschließend	Contacts (2 decks), short-circuiting
Kontakte 7 µm hartvergoldet	Contacts 7 µm hard gold-plated
Magnet	Magnet
Metallschichtwiderstand	Metal-film resistor
mit Kohlekontakt	with carbon contact
mit Zahn- und Glimmerscheibe	with tooth washer and mica washer
nach Zchng., n. Zeichng., n. Zchng.	According to drawing
Netzfilter	A.C. line filter
Netztrafo	Mains transformer
nur	only
oder	or
ohne Anschlagstift	without stop pin
...polig	...pole
Papierkondensator	Paper capacitor
Platte	Panel
Prüffeld	Test department
Quarz	Crystal
Reed-Kontakt	Reed contact
Relais	Relay
Ringkern	Ferrite bead
Rohrkern	Ferrite tube
Schalter	Switch
Schichtdrehwiderstand	Carbon film, potentiometer
Schichtwiderstand	Carbon film resistor
Serie	Series
Sonderqualität	Special quality
Spindelwiderstand	Multiturn adjustable resistor, axial
Spule	Coil
Stck.	Piece
Stecker	Plug
System	System
Teil	Part
teilweise	Partial
Transistor	Transistor
Trimmer	Trimmer
Übertrager	Transformer
Wahlweise nach Bv... oder..	Selected according to Bv...or...
zusätzlich	Additionally

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung	Hersteller, Anmerkgn
R 101	1	Schichtwid.	22 Ω / 5 % / K1. 2 / 0309		
R 102	1	Schichtwid.	220 Ω / 5 % / K1. 2 / 0309		
R 103	1	Schichtwid.	560 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 104	1	Schichtwid.	470 Ω / 5 % / K1. 2 / 0309		
R 105	1	Schichtwid.	220 Ω / 5 % / K1. 2 / 0309		
R 106	1	Schichtwid.	22 Ω / 5 % / K1. 2 / 0309		
R 107	1	Schichtwid.	22 Ω / 5 % / K1. 2 / 0309		
R 108	1	Schichtwid.	820 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 109	1	Schichtwid.	270 Ω / 5 % / K1. 2 / 0309		
R 110	1	Schichtwid.	680 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 111	1	Schichtwid.	470 Ω / 5 % / K1. 2 / 0309		
R 112	1	Schichtwid.	270 Ω / 5 % / K1. 2 / 0309		
R 113	1	Schichtwid.	22 Ω / 5 % / K1. 2 / 0309		
R 114	1	Schichtwid.	18 Ω / 5 % / K1. 2 / 0309		
R 115	1	Schichtwid.	330 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 116	1	Schichtwid.	56 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 117	1	Schichtwid.	68 Ω / 5 % / K1. 2 / 0309		
R 118	1	Schichtwid.	15 kΩ / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 119	1	Schichtwid.	68 Ω / 5 % / K1. 2 / 0309		
R 120	1	Schichtwid.	27 kΩ / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 121	1	Schichtwid.	68 Ω / 5 % / K1. 2 / 0309		
R 122	1	Schichtwid.	3,3 kΩ / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 123	1	Schichtwid.	27 kΩ / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 124	1	Schichtwid.	12 kW / 5 % / K1. 2 / 0309		
R 125	1	Schichtwid.	68 Ω / 5 % / K1. 2 / 0309		
R 126	1	Schichtwid.	180 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 127	1	Schichtwid.	100 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
P 101	1	Schichtdrehwid.	50 kΩ / lin / 1 W		1 WR 17 / 2 / 6
C 101	1	Ker. Kond.	39 pF / 2 % / N 150		WN 110 / 2 / 3
C 102	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 103	1	Kf - Kond.	10 nF / 20 % / 630 V -		WN 110 / 3 / 7
C 104	1	Glimmer	82 pF / 10 % / 500 V -		Bf.48.10 Jahre
C 105	1	Glimmer	82 pF / 10 % / 500 V -		Bf.48.10 Jahre
C 106	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 107	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 108	1	Ker. Kond.	10 pF / 5 % / P 100		WN 110 / 2 / 3
C 110	1	Kf - Kond.	10 nF / 20 % / 630 V -		WN 110 / 3 / 7
C 111	1	Kf - Kond.	10 nF / 20 % / 630 V -		WN 110 / 3 / 7
C 112	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 113	1	Kf - Kond.	0,22 µF / 20 % / 100 V -		WN 110 / 3 / 7

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung	Hersteller, Anmerkgn
L 101	1	Spule	4,7 µH		WN 117 / 1 / 2
L 102	1	Spule	27 µH		2 WN 117 / 1 / 1
L 103	1	Spule	27 µH		2 WN 117 / 1 / 1
L 104	1	Spule	27 µH		2 WN 117 / 1 / 1
L 105	1	Spule	27 µH		2 WN 117 / 1 / 1
L 106	1	Spule	27 µH		2 WN 117 / 1 / 1
L 107	1	Spule	27 µH		2 WN 117 / 1 / 1
L 108	1	Spule	27 µH		2 WN 117 / 1 / 1
L 109	1	Spule	27 µH		2 WN 117 / 1 / 1
Ü 101	1	Übertrager		Bv. 340 - 7753	
Ü 102	1	Übertrager		Bv. 341 - 7750	
G1 101	1	Diode	hp 5082 - 2800		
G1 102	1	Diode	hp 5082 - 2800		
G1 103	1	Diode	hp 5082 - 2800		
G1 104	1	Diode	hp 5082 - 2800		
T 101	1	Transistor	BFY 84		
T 102	1	Transistor	BSX 27		
T 103	1	Transistor	BSX 27		
T 104	1	Transistor	BFY 90		
T 105	1	Transistor	BFY 90		
T 106	1	Transistor	DW 7154		
T 107	1	Transistor	DW 7154		

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
C 201	1	Ker. Kond.	27 pF / 1 % / 400 V -		N 220/1B Rr 3x10 U CRL
C 202	1	Ker. Kond.	10 pF / ± 0,25 pF / 500 V -		N 220/1B Rr 3x10 U CRL
C 203	1	Ker. Kond.	51 pF / 1 % / 400 V -		N 220/1B Rr 3x12 U CRL
C 204	1	Ker. Kond.	22 pF / 2 % / 400 V -		N 220/1B Rr 3x10 U CRL
C 205	1	Ker. Kond.	47 pF / 1 % / 400 V -		N 220/1B Rr 3x12 U CRL
C 206	1	Ker. Kond.	27 pF / 1 % / 400 V -		N 220/1B Rr 3x10 U CRL
C 207	1	Ker. Kond.	43 pF / 1 % / 400 V -		N 220/1B Rr 3x12 U CRL
C 208	1	Ker. Kond.	20 pF / 2 % / 400 V -		N 220/1B Rr 3x10 U CRL
C 209	1	Trimmer	10 / 40 pF / N 750		WN 111 / 1 / 2

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
L 202	1	Spule		Bv. 340 - 7888,1	
L 203	1	Spule		Bv. 340 - 7889,1	
L 204	1	Spule		Bv. 340 - 7890,1	
L 205	1	Spule		Bv. 340 - 7890,1	

20-MHz-Tiefpaß PS-60
20 MHz low-pass Filter BN 610 (2)

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
R 301	1	Schichtwid.	22 Ω / 5 % / K1. 2 / 0309		
R 302	1	Schichtwid.	285 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 303	1	Schichtwid.	18 kΩ / 5 % / K1. 2 / 0309		
R 304	1	Schichtwid.	68 Ω / 5 % / K1. 2 / 0309		
R 305	1	Schichtwid.	2,7 kΩ / 5 % / K1. 2 / 0309		
R 306	1	Schichtwid.	56 Ω / 5 % / K1. 2 / 0309		
R 307	1	Schichtwid.	33 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 308	1	Schichtwid.	33 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 309	1	Schichtwid.	180 Ω / 5 % / K1. 2 / 0309		
R 310	1	Schichtwid.	4,7 kΩ / 5 % / K1. 2 / 0309		
R 311	1	Schichtwid.	680 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 312	1	Schichtwid.	68 Ω / 5 % / K1. 2 / 0309		
R 313	1	Schichtwid.	1,5 kΩ / 5 % / K1. 2 / 0309		
R 314	1	Schichtwid.	56 Ω / 5 % / K1. 2 / 0309		
R 315	1	Schichtwid.	150 Ω / 5 % / K1. 2 / 0309		
R 316	1	Schichtwid.	120 Ω / 5 % / K1. 2 / 0309		
R 317	1	Schichtwid.	2,2 kΩ / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 318	1	Schichtwid.	68 Ω / 5 % / K1. 2 / 0309		
R 319	1	Schichtwid.	1,5 kΩ / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 320	1	Schichtwid.	100 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 321	1	Schichtwid.	470 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 322	1	Schichtwid.	820 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 323	1	Schichtwid.	100 Ω / 5 % / K1. 2 / 0309		
R 324	1	Schichtwid.	1 kΩ / 5 % / K1. 2 / 0309		
R 325	1	Schichtwid.	68 Ω / 5 % / K1. 2 / 0309		
R 326	1	Schichtwid.	2,7 kΩ / 5 % / K1. 2 / 0,25 W		
P 301	1	Schichtdrehwid.	100 Ω / lin / 0,5 W		1 WN 17 / 2 / 8
P 302	1	Schichtdrehwid.	200 Ω / lin / 0,5 W		1 WN 17 / 2 / 8

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
C 301	1	Elko	68 µF / 20 % / 3 V -		WN 110 / 5 / 61
C 302	1	Kf - Kond.	1 µF / 10 % / 100 V -		MKT 1822-510/0 Ero
C 303	1	Elko	100 µF / 20 % / 10 V -		WN 110 / 5 / 61
C 304	1	Kf - Kond.	1 µF / 10 % / 100 V -		MKT 1822-510/0 Ero
C 305	1	Elko	100 µF / -20 +75 % / 30 V -		ETAH 100/30 E
C 306	1	Elko	4,7 µF / 20 % / 20 V -		WN 110 / 5 /
C 307	1	Ker. Kond.	6,8 pF / ± 0,5 pF / P 100		WN 110 / 2 / 3
C 309	1	Ker. Kond.	10 nF / +80 -20 % / R 6000		WN 110 / 2 / 3
C 310	1	Ker. Kond.	10 nF / +80 -20 % / R 6000		WN 110 / 2 / 3
C 311	1	Trimmer	0,5 ... 3 pF / P 100		R-Trike 108-01 M Stett
L 301	1	Spule	10 µH		WN 117 / 1 / 2
L 302	1	Spule		Bv. 340 - 7877	
J 301	1	Transistor	BFR 37		SGS
T 302	1	Transistor	BFR 37		SGS
T 303	1	Transistor	BFX 73		
T 304	1	Transistor	BFX 73		
T 305	1	Transistor	BFX 73		

Vorverstärker PS-60
Preamplifier BN 610 (3)

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
R 401	1	Schichtwid.	33 kΩ / 5 % / K1. 2 / 0309		
R 402	1	Schichtwid.	100 kΩ / 5 % / K1. 2 / 0309		
R 403	1	Schichtwid.	100 kΩ / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
[illegible]	1	Schichtwid.	100 kΩ / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
[illegible]	1	Schichtwid.	1 kΩ / 5 % / K1. 2 / 0309		
R 406	1	Schichtwid.	68 Ω / 5 % / K1. 2 / 0309		
R 407	1	Schichtwid.	68 kΩ / 5 % / K1. 2 / 0309		
R 408	1	Schichtwid.	1,8 kΩ / 5 % / K1. 2 / 0309		
R 409	1	Schichtwid.	330 kΩ / 5 % / K1. 2 / 0309		
R 410	1	Schichtwid.	39 Ω / 5 % / K1. 2 / 0309		
R 411	1	Schichtwid.	100 kΩ / 5 % / K1. 2 / 0309		
R 412	1	Schichtwid.	2,7 kΩ / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 413	1	Schichtwid.	330 Ω / 5 % / K1. 2 / 0309		
R 414	1	Schichtwid.	390 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 416	1	Schichtwid.	165 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 417	1	Schichtwid.	820 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 418	1	Schichtwid.	195 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 419	1	Schichtwid.	560 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 420	1	Schichtwid.	560 Ω / 5 % / K1. 2 / 0309		
R 421	1	Schichtwid.	560 Ω / 5 % / K1. 2 / 0309		
R 422	1	Schichtwid.	5,6 kΩ / 5 % / K1. 2 / 0309		
R 423	1	Schichtwid.	10 Ω / 5 % / K1. 2 / 0309		
R 424	1	Schichtwid.	10 Ω / 5 % / K1. 2 / 0309		
R 425	1	Schichtwid.	1 MΩ / 1 % / K1.0,5 / 0414		WN 18 / 1 / 3
R 426	1	Schichtwid.	1 MΩ / 1 % / K1.0,5 / 0414		WN 18 / 1 / 3
R 428	1	Schichtwid.	300 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 429	1	Schichtwid.	560 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
[illegible]	1	Schichtwid.	560 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
[illegible]	1	Schichtwid.	180 Ω / 5 % / K1. 2 / 0309		
R 432	1	Schichtwid.	180 Ω / 5 % / K1. 2 / 0309		
R 433	1	Schichtwid.	82 Ω / 5 % / K1. 2 / 0309		
R 434	1	Schichtwid.	1,2 kΩ / 5 % / K1. 2 / 0309		
R 435	1	Schichtwid.	1,2 kΩ / 5 % / K1. 2 / 0309		
R 436	1	Schichtwid.	5,6 Ω / 5 % / K1. 2 / 0309		
R 437	1	Schichtwid.	5,6 Ω / 5 % / K1. 2 / 0309		
R 438	1	Schichtwid.	5,6 Ω / 5 % / K1. 2 / 0309		
R 439	1	Schichtwid.	5,6 Ω / 5 % / K1. 2 / 0309		
R 440	1	Schichtwid.	10 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 441	1	Schichtwid.	12 Ω / 5 % / K1. 2 / 0309		
R 442	1	Schichtwid.	15 Ω / 5 % / K1. 2 / 0309		
P 401	1	Schichtdrehwid.	2,5 kΩ / 1 W / lin		1 WN 17 / 2 / 6
P 402	1	Schichtdrehwid.	100 Ω / 1 W / lin		1 WN 17 / 2 / 6
P 403	1	Schichtdrehwid.	25 kΩ / 0,5 W / lin		1 WN 17 / 2 / 8

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
C 401	1	Glimmer	4,7 nF / 10 % / 250 V =		Bf. 53 - 2 Jahre
C 402	1	Kf - Kond.	68 nF / 20 % / 100 V =		WN 110 / 3 / 7
C 403	1	Elko	1 µF / 20 % / 35 V =		WN 110 / 5 / 61
C 404	1	Kf - Kond.	1 µF / 10 % / 100 V =		MKT 1822-510/D Ero
C 405	1	Ker. Kond.	2 pF / ± 0,25 pF / P 100		WN 110 / 2 / 3
C 406	1	Kf - Kond.	1 µF / 10 % / 100 V =		MKT 1822-510/D Ero
C 407	1	Kf - Kond.	33 nF / 20 % / 250 V =		WN 110 / 3 / 7
C 409	1	Elko	4,7 µF / 20 % / 35 V =		WN 110 / 5 / 61
C 410	1	Elko	22 µF / 20 % / 16 V =		WN 110 / 5 / 61
C 411	1	Ker. Kond.	3,9 pF / ± 0,5 pF / P 100		WN 110 / 2 / 3
C 412	1	Ker. Kond.	3,9 pF / ± 0,5 pF / P 100		WN 110 / 2 / 3
C 413	1	Elko	100 µF / +75 -20 % / 30 V =		ETAH 3 100 / 30 Ero - Tantal
C 414	1	Elko	100 µF / +75 -20 % / 30 V =		ETAH 3 100 / 30 Ero - Tantal
C 415	1	Elko	10 µF / 20 % / 20 V =		WN 110 / 5 / 61
C 416	1	Elko	10 µF / 20 % / 20 V =		WN 110 / 5 / 61
L 401	1	Spule		By. 340 - 7828	
L 402	1	Spule	0,22 µH		WN 117 / 1 / 2
L 403	1	Spule	10 µH		WN 117 / 1 / 2
L 404	1	Spule	4,7 µH		WN 117 / 1 / 2
L 405	1	Spule	4,7 µH		WN 117 / 1 / 2
L 406	1	Spule	27 µH		2 WN 117 / 1 / 1
L 407	1	Spule	27 µH		2 WN 117 / 1 / 1
L 408	1	Spule	1 µH		WN 117 / 1 / 2
L 409	1	Spule	1 µH		WN 117 / 1 / 2
T 401	1	Transistor	DW 7154		
T 402	1	Transistor	BFX 93		
T 403	1	Transistor	BFX 93		
T 404	1	Transistor	BFR 37		SGS
T 405	1	Transistor	BFR 37		SGS
T 406	1	Transistor	BFY 90		
T 407	1	Transistor	2 N 4261		
T 408	1	Transistor	2 N 3960		
T 409	1	Transistor	BSX 93		
T 410	1	Transistor	2 N 3209		
St 401	1	Stecker			3 WN 119 / 8 / 1

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
R 502	1	Schichtwid.	1 MΩ / 1 % / K1.0,5 / 0414		WN 18 / 1 / 3
R 503	1	Schichtwid.	390 kΩ / 5 % / K1. 2 / 0309		
R 504	1	Schichtwid.	39 kΩ / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 505	1	Schichtwid.	39 kΩ / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 506	1	Schichtwid.	47 kΩ / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 507	1	Schichtwid.	3,9 kΩ / 5 % / K1. 2 / 0309		
R 508	1	Schichtwid.	150 Ω / 5 % / K1. 2 / 0309		
R 509	1	Schichtwid.	15 kΩ / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 510	1	Schichtwid.	39 kΩ / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 511	1	Schichtwid.	1 MΩ / 1 % / K1.0,5 / 0414		WN 18 / 1 / 3
R 516	1	Schichtwid.	3,9 kΩ / 5 % / K1. 2 / 0309		
R 517	1	Schichtwid.	10 kΩ / 5 % / K1. 2 / 0309		
R 518	1	Schichtwid.	1 MΩ / 5 % / K1. 2 / 0309		
R 519	1	Schichtwid.	3,9 kΩ / 5 % / K1. 2 / 0309		
R 520	1	Schichtwid.	1 MΩ / 5 % / K1. 2 / 0309		
R 521	1	Schichtwid.	47 Ω / 5 % / K1. 2 / 0309		
R 522	1	Schichtwid.	5,6 kΩ / 5 % / K1. 2 / 0309		
R 523	1	Schichtwid.	1,8 kΩ / 5 % / K1. 2 / 0309		
R 524	1	Schichtwid.	100 kΩ / 5 % / K1. 2 / 0309		
R 525	1	Schichtwid.	820 kΩ / 5 % / K1. 2 / 0309		
R 526	1	Schichtwid.	47 kΩ / 5 % / K1. 2 / 0309		
R 527	1	Schichtwid.	1 MΩ / 5 % / K1. 2 / 0309		
R 528	1	Schichtwid.	1,2 kΩ / 5 % / K1. 2 / 0309		
R 529	1	Schichtwid.	5,6 kΩ / 5 % / K1. 2 / 0309		
R 530	1	Schichtwid.	6,8 kΩ / 5 % / K1. 2 / 0309		
R 531	1	Schichtwid.	18 kΩ / 5 % / K1. 2 / 0309		
R 532	1	Schichtwid.	56 Ω / 5 % / K1. 2 / 0309		
R 533	1	Schichtwid.	1,2 kΩ / 5 % / K1. 2 / 0309		
R 534	1	Schichtwid.	56 Ω / 5 % / K1. 2 / 0309		
R 537	1	Schichtwid.	560 Ω / 5 % / K1. 2 / 0309		
R 538	1	Schichtwid.	120 Ω / 5 % / K1. 2 / 0309		
R 539	1	Schichtwid.	1 kΩ / 5 % / K1. 2 / 0309		
R 540	1	Schichtwid.	560 Ω / 5 % / K1. 2 / 0309		
P 501	1	Spindelwid.	500 Ω / 10 % / 1 W		WN 17 / 4 / 4

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
C 501	1	Elko	22 µF / 20 % / 16 V =		WN 110 / 5 / 61
C 502	1	Kf - Kond.	120 pF / 2 % / 160 V =		WN 110 / 3 / 1
C 503	1	Kf - Kond.	0,47 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 504	1	Kf - Kond.	120 pF / 2 % / 160 V =		WN 110 / 3 / 1
C 505	1	Kf - Kond.	0,47 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 506	1	Elko	33 µF / 20 % / 10 V =		WN 110 / 5 / 61
C 507	1	Elko	22 µF / 20 % / 16 V =		WN 110 / 5 / 61
C 508	1	Elko	22 µF / 20 % / 16 V =		WN 110 / 5 / 61
C 509	1	Kf - Kond.	0,1 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 510	1	Kf - Kond.	0,1 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 511	1	Kf - Kond.	22 nF / 20 % / 400 V =		WN 110 / 3 / 7
C 512	1	Kf - Kond.	10 nF / 20 % / 630 V =		WN 110 / 3 / 7
C 513	1	Elko	10 µF / 20 % / 20 V =		WN 110 / 5 / 61
C 514	1	Kf - Kond.	1 µF / 10 % / 100 V =		WN 110 / 3 / 6
G1 501	1	Diode	1 N 4448		
G1 502	1	Diode	1 N 4448		
G1 503	1	Diode	BAY 72		
G1 504	1	Diode	BAY 72		
G1 507	1	Diode	1 N 4448		
T 501	1	Transistor	BFY 81		
T 502	1	Transistor	BCY 59 D		
T 504	1	Transistor	BCY 59 D		
T 505	1	Transistor	BCY 59 D		
T 506	1	Transistor	BCY 59 D		
IC 501	1	IC	µA 741 C		WN 141 / 1 / 1

Teil	Stck	Bezeichnung	Bestellangaben: Elektrische Werte	Benennung	Hersteller, Anmerkgn
R 601	1	Schichtwid.	237 Ω /0,5 %/ K1.0,5 / 0414		WN 18 / 1 / 3
R 602	1	Schichtwid.	110 Ω /0,5 %/ K1.0,5 / 0414		WN 18 / 1 / 3
R 603	1	Schichtwid.	50 Ω /0,1 %		Vishay V 53,1
R [illegible]	1	Schichtwid.	6,8 kΩ / 5 %/ K1. 2 / 0309		
R [illegible]05	1	Schichtwid.	49,9 Ω / 0,5 % / Tk 50 / 0207		WN 18 / 4 / 1
R 606	1	Schichtwid.	68 Ω / 5 % / K1. 2 / 0309		
R 607	1	Schichtwid.	100 Ω / 5 % / K1. 2 / 0309		
R 608	1	Schichtwid.	33 Ω / 5 % / K1. 2 / 0309		
R 609	1	Schichtwid.	24,9 Ω / 0,5 % / Tk 50 / 0207		WN 18 / 4 / 1
R 616	1	Schichtwid.	33 Ω / 5 % / K1. 2 / 0309		Abgleichwert
R 617	1	Schichtwid.	33 Ω / 5 % / K1. 2 / 0309		Abgleichwert
R 618	1	Schichtwid.	33 Ω / 5 % / K1. 2 / 0309		Abgleichwert
R 619	1	Schichtwid.	150 Ω / 5 % / K1. 2 / 0309		Abgleichwert
R 620	1	Schichtwid.	47 Ω / 5 % / K1. 2 / 0309		
P 601	1	Schichtdrehwid.	100 Ω / lin / 0,5 W		2 WN 17 / 2 / 8
P 602	1	Schichtdrehwid.	100 Ω / lin / 0,5 W		2 WN 17 / 2 / 8
P 603	1	Schichtdrehwid.	100 Ω / lin / 0,5 W		2 WN 17 / 2 / 8
P 604	1	Schichtdrehwid.	100 Ω / lin / 0,5 W		1 WN 17 / 2 / 8
C 601	1	Kf - Kond.	0,22 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 602	1	Kf - Kond.	0,22 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 603	1	Trimmer	10 / 40 pF / N 750		WN 111 / 1 / 2
C 604	1	Trimmer	10 / 40 pF / N 750		WN 111 / 1 / 2
C 605	1	Ker. Kond.	22 pF / 2 % / NPO		WN 110 / 2 / 9
C 606	1	Ker. Kond.	27 pF / 2 % / NPO		WN 110 / 2 / 9
C 607	1	Ker. Kond.	5,6 pF / ± 0,25 pF / NPO		WN 110 / 2 / 9
C 610	1	Ker. Kond.	2 pF / ± 0,25 pF / P 100		WN 110 / 2 / 3
C 611	1	Ker. Kond.	4,7 nF / +50 -20 % / 500 V -		WN 110 / 2 / 52
C 612	1	Ker. Kond.	4,7 nF / +50 -20 % / 500 V -		WN 110 / 2 / 52
C 613	1	Ker. Kond.	4,7 nF / +50 -20 % / 500 V -		WN 110 / 2 / 52
C 614	1	Ker. Kond.	4,7 nF / +50 -20 % / 500 V -		WN 110 / 2 / 52
C 615	1	Ker. Kond.	4,7 nF / +50 -20 % / 500 V -		WN 110 / 2 / 52
C 616	1	Ker. Kond.	4,7 nF / +50 -20 % / 500 V -		WN 110 / 2 / 52
C 617	1	Ker. Kond.	4,7 nF / +50 -20 % / 500 V -		WN 110 / 2 / 52
G1 601	1	Diode	hp 5082 - 2800	ausgesucht nach Bv. 340 - 9360	
G1 602	1	Diode	hp 5082 - 2800		
G1 603	1	Diode	1 N 4448		
L 601	1	Spule		Bv. 340 - 7880	
L [illegible]	1	Spule		Bv. 340 - 7893	
L [illegible]	1	Spule		Bv. 340 - 7894	
L 604	1	Spule		Bv. 340 - 7881	

Teil	Stck	Bezeichnung	Bestellangaben: Elektrische Werte	Benennung	Hersteller, Anmerkgn
L 608	1	Spule		Bv. 340 - 7895	
L 611	1	Spule	0,15 µH		WN 117 / 1 / 2
Ü 601	1	Übertrager		Bv. 340 - 7740,1	
Ü 602	1	Übertrager		Bv. 340 - 7743,1	
Ü 603	1	Übertrager		Bv. 340 - 7736	
Ü 604	1	Übertrager		Bv. 340 - 7738	
Ü 605	1	Übertrager		Bv. 340 - 7744	
Ü 606	1	Übertrager		Bv. 340 - 7741	
Ü 608	1	Übertrager		Bv. 340 - 7756 Serie A u. B: Bv. 340 - 7732	
Rel 601	1	Relais		Bv. 340 - 8201	
Rel 602	1	Relais		Bv. 340 - 8201	
Rel 603	1	Relais		Bv. 340 - 8201	
Rel 604	1	Relais		Bv. 340 - 8201	
Rel 605	1	Relais		Bv. 340 - 8201	
Rel 606	1	Relais		Bv. 340 - 8201	
Bu 601	1	Buchse 2			WN 119 / 8 / 1
Bu 602	1	Buchse	5 polig		WN 119 / 7 / 2
Bu 603	1	Buchse 2			WN 119 / 8 / 1
Bu 604	1	Buchse	UNI 9 g		WN 119 / 9 / 4
Bu 606	1	Buchse	UNI 9 D		WN 119 / 9 / 4
Bu 608	1	Buchse	10 polig		Mab 10,Nr.930 678-000 Hirschmann
St 601	1	Stecker 3			WN 119 / 8 / 1
St 602	1	Stecker 2	5 polig		WN 119 / 7 / 2
St 603	1	Stecker 3			WN 119 / 8 / 1
St 604	1	Stecker 3			WN 119 / 8 / 1
St 605	1	Stecker	10 polig		Mist 10,Nr.930 675-000 Hirschmann
S 601	1	Schalter	6 x 2 Kontakte AuNi		SB 16,Typ 1706 K Achsl=20 mm SEL
Ma 601	1	Magnet	FXD 100		4312 020 65931 Valvo
rel 607	1	Reed - Kontakt			WN 118 / 3 / 3
rel 608	1	Reed - Kontakt			WN 118 / 3 / 3

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung	Hersteller, Anmerkgn
R 701	1	Schichtwid.	120 Ω / 5 % / Kl. 2 / 0309		
R 703	1	Schichtwid.	100 Ω / 5 % / Kl. 2 / 0309		
R 704	1	Schichtwid.	560 kΩ / 5 % / Kl. 2 / 0309		
R 705	1	Schichtwid.	27 kΩ / 5 % / Kl. 2 / 0309		
R 706	1	Schichtwid.	150 Ω / 5 % / Kl. 2 / 0309		
R 707	1	Schichtwid.	15 kΩ / 5 % / Kl. 2 / 0309		
R 708	1	Schichtwid.	4,7 kΩ / 5 % / Kl. 2 / 0309		
R 709	1	Schichtwid.	6,8 kΩ / 5 % / Kl. 2 / 0309		
R 710	1	Schichtwid.	18 kΩ / 5 % / Kl. 2 / 0309		
R 711	1	Schichtwid.	18 kΩ / 5 % / Kl. 2 / 0309		
R 712	1	Schichtwid.	6,8 kΩ / 5 % / Kl. 2 / 0309		
R 713	1	Schichtwid.	12 kΩ / 5 % / Kl. 2 / 0309		
R 714	1	Schichtwid.	270 Ω / 5 % / Kl. 2 / 0309		
R 715	1	Schichtwid.	27 kΩ / 5 % / Kl. 2 / 0309		
R 716	1	Schichtwid.	6,8 kΩ / 5 % / Kl. 2 / 0309		
R 717	1	Schichtwid.	6,8 kΩ / 5 % / Kl. 2 / 0309		
R 718	1	Schichtwid.	56 kΩ / 5 % / Kl. 2 / 0309		
R 719	1	Schichtwid.	56 kΩ / 5 % / Kl. 2 / 0309		
R 720	1	Schichtwid.	10 Ω / 5 % / Kl. 2 / 0309		
R 721	1	Schichtwid.	1,8 kΩ / 5 % / Kl. 2 / 0309		
R 722	1	Schichtwid.	27 kΩ / 5 % / Kl. 2 / 0309		
R 723	1	Schichtwid.	68 kΩ / 5 % / Kl. 2 / 0309		
R 724	1	Schichtwid.	22 Ω / 5 % / Kl. 2 / 0309		
R 725	1	Schichtwid.	100 Ω / 5 % / Kl. 2 / 0309		
R 727	1	Schichtwid.	39 Ω / 5 % / Kl. 2 / 0309		
R 728	1	Schichtwid.	15 kΩ / 5 % / Kl. 2 / 0309		
R 729	1	Schichtwid.	8,2 kΩ / 5 % / Kl. 2 / 0309		
R 730	1	Schichtwid.	2,21 kΩ / 1 % / Tk 25 / 0207		SMA 0207 CRL
R 731	1	Schichtwid.	1,11 kΩ / 0,5% /Tk 25 / 0207		SMA 0207 CRL
R 732	1	Schichtwid.	2,10 kΩ / 1 % / Tk 25 / 0207		SMA 0207 CRL
R 733	1	Schichtwid.	3,32 kΩ / 0,5% /Tk 25 / 0207		SMA 0207 CRL
R 734	1	Schichtwid.	100 Ω / 5 % / Kl. 2 / 0309		
R 735	1	Schichtwid.	100 Ω / 5 % / Kl. 2 / 0309		
R 736	1	Schichtwid.	56 kΩ / 5 % / Kl. 2 / 0309		
R 737	1	Schichtwid.	100 Ω / 5 % / Kl. 2 / 0309		
R 738	1	Schichtwid.	2,7 kΩ / 5 % / Kl. 2 / 0309		
R 741	1	Schichtwid.	220 Ω / 5 % / Kl. 2 / 0309		
R 742	1	Schichtwid.	6,8 kΩ / 5 % / Kl. 2 / 0309		
R 743	1	Schichtwid.	39 kΩ / 5 % / Kl. 2 / 0309		
R 744	1	Schichtwid.	2,2 kΩ / 5 % / Kl. 2 / 0309		
R 745	1	Schichtwid.	220 Ω / 5 % / Kl. 2 / 0309		
R 746	1	Schichtwid.	6,8 kΩ / 5 % / Kl. 2 / 0309		
R 747	1	Schichtwid.	39 kΩ / 5 % / Kl. 2 / 0309		
R 749	1	Schichtwid.	220 Ω / 5 % / Kl. 2 / 0309		
R 750	1	Schichtwid.	6,8 kΩ / 5 % / Kl. 2 / 0309		

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung	Hersteller, Anmerkgn
R 751	1	Schichtwid.	39 kΩ / 5 % / Kl. 2 / 0309		
R 753	1	Schichtwid.	220 Ω / 5 % / Kl. 2 / 0309		
R 754	1	Schichtwid.	6,8 kΩ / 5 % / Kl. 2 / 0309		
R 755	1	Schichtwid.	39 kΩ / 5 % / Kl. 2 / 0309		
R 757	1	Schichtwid.	220 Ω / 5 % / Kl. 2 / 0309		
R 758	1	Schichtwid.	6,8 kΩ / 5 % / Kl. 2 / 0309		
R 759	1	Schichtwid.	39 kΩ / 5 % / Kl. 2 / 0309		
R 761	1	Schichtwid.	220 Ω / 5 % / Kl. 2 / 0309		
R 762	1	Schichtwid.	3,3 MΩ / 5 % / Kl. 2 / 0309		
R 763	1	Schichtwid.	6,8 kΩ / 5 % / Kl. 2 / 0309		
R 764	1	Schichtwid.	6,8 kΩ / 5 % / Kl. 2 / 0309		
R 765	1	Schichtwid.	12 kΩ / 5 % / Kl. 2 / 0309		
R 766	1	Schichtwid.	560 Ω / 5 % / Kl. 2 / 0309		
R 767	1	Schichtwid.	27 kΩ / 5 % / Kl. 2 / 0309		
R 768	1	Schichtwid.	100 kΩ / 5 % / Kl. 2 / 0309		
R 770	1	Schichtwid.	10 kΩ / 5 % / Kl. 2 / 0309		
R 771	1	Schichtwid.	68 Ω / 5 % / Kl. 2 / 0309		
R 772	1	Schichtwid.	68 Ω / 5 % / Kl. 2 / 0309		
R 773	1	Schichtwid.	3,3 kΩ / 5 % / Kl. 2 / 0309		
R 774	1	Schichtwid.	8,45 kΩ / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
R 775	1	Schichtwid.	4,7 kΩ / 5 % / Kl. 2 / 0309		
R 776	1	Schichtwid.	100 Ω / 5 % / Kl. 2 / 0309		
R 777	1	Schichtwid.	100 Ω / 5 % / Kl. 2 / 0309		
R 778	1	Schichtwid.	8,06 kΩ / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
R 779	1	Schichtwid.	10 kΩ / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
P 701	1	Schichtdrehwid.	2,5 kΩ / lin / 1 W		1 WN 17 / 2 / 6
P 702	1	Schichtdrehwid.	500 Ω / lin / 1 W		1 WN 17 / 2 / 6
P 703	1	Drahtdrehwid.	10 kΩ / 3 % / 3 W		Typ 2151 - B 103 Amphenol / Berg
P 704	1	Schichtdrehwid.	5 kΩ / lin / 1 W		1 WN 17 / 2 / 6
P 705	1	Spindelwid.	1 kΩ / 10 % / 1 W		WN 17 / 4 / 4
P 706	1	Spindelwid.	1 kΩ / 10 % / 1 W		WN 17 / 4 / 4
P 707	1	Spindelwid.	1 kΩ / 10 % / 1 W		WN 17 / 4 / 4
IC 701	1	IC	µA 741 C		WN 141 / 1 / 1
IC 702	1	IC	µA 741 C		WN 141 / 1 / 1
C 701	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 702	1	Elko	22 µF / 20 % / 16 V -		WN 110 / 5 / 61
C 703	1	Kf - Kond.	10 nF / 20 % / 630 V -		WN 110 / 3 / 7
C 704	1	Kf - Kond.	1,5 nF / 2 % / 160 V -		WN 110 / 3 / 1
C 705	1	Elko	22 µF / 20 % / 16 V -		WN 110 / 5 / 1

Fortsetzung (continued)

Fortsetzung (continued)

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
C 706	1	Kf - Kond.	18,7 nF / 2 % / 63 V =		WN 110 / 3 / 10
C 707	1	Elko	22 µF / 20 % / 16 V =		WN 110 / 5 / 61
C 708	1	Kf - Kond.	2,2 µF / 20 % / 63 V =		B 32 110 - E 9225-M Siemens
C 709	1	Kf - Kond.	1 µF / 10 % / 100 V =		MKT 1822 - 510 / 0 Ero
C 710	1	Elko	22 µF / 20 % / 16 V =		WN 110 / 5 / 61
C 711	1	Kf - Kond.	1 µF / 10 % / 100 V =		MKT 1822 - 510 / 0 Ero
C 712	1	Kf - Kond.	1,8 nF / 2 % / 63 V =		WN 110 / 3 / 10
C 713	1	Kf - Kond.	1 µF / 10 % / 100 V =		MKT 1822 - 510 / 0 Ero
C 714	1	Kf - Kond.	0,1 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 715	1	Kf - Kond.	2,2 µF / 20 % / 63 V =		B 32110 - E 9225 -M Siemens
C 716	1	Kf - Kond.	0,1 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 717	1	Kf - Kond.	2,2 µF / 20 % / 63 V =		B 32110 - E 9225 -M Siemens
C 718	1	Kf - Kond.	0,1 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 719	1	Elko	22 µF / 20 % / 16 V =		WN 110 / 5 / 61
C 721	1	Kf - Kond.	1 µF / 10 % / 100 V =		MKT 1822 - 510 / 0 Ero
C 722	1	Kf - Kond.	0,1 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 723	1	Elko	22 µF / 20 % / 16 V =		WN 110 / 5 / 61
C 724	1	Kf - Kond.	0,1 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 725	1	Kf - Kond.	1 µF / 10 % / 100 V =		MKT 1822 - 510 / 0 Ero
C 726	1	Kf - Kond.	0,1 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 727	1	Elko	4,7 µF / 20 % / 35 V =		WN 110 / 5 / 61
C 728	1	Kf - Kond.	0,22 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 730	1	Kf - Kond.	0,22 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 731	1	Kf - Kond.	0,22 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 732	1	Kf - Kond.	0,22 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 733	1	Kf - Kond.	0,22 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 734	1	Kf - Kond.	10 nF / 20 % / 630 V =		WN 110 / 3 / 7
C 735	1	Kf - Kond.	10 nF / 20 % / 630 V =		WN 110 / 3 / 7
C 736	1	Kf - Kond.	10 nF / 20 % / 630 V =		WN 110 / 3 / 7
C 737	1	Kf - Kond.	10 nF / 20 % / 630 V =		WN 110 / 3 / 7
C 738	1	Kf - Kond.	10 nF / 20 % / 630 V =		WN 110 / 3 / 7
C 739	1	Kf - Kond.	4,7 µF / 20 % / 63 V =		B 32110 - E 9475-M Siemens
C 740	1	Kf - Kond.	0,1 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 741	1	Kf - Kond.	0,1 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 742	1	Kf - Kond.	0,1 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 746	1	Kf - Kond.	220 pF / 2 % / 160 V =		WN 110 / 3 / 1
J 701	1	Instrument		Bv. 610 - 8101	
S 701	1	Schalter		Bv. 341 - 8009	

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
Ü 701	1	Übertrager		Bv. 340 - 7727	
Ü 702	1	Übertrager		Bv. 340 - 7733	
Ü 703	1	Übertrager		Bv. 340 - 7728	
L 701	1	Spule		Bv. 340 - 7829	
L 702	1	Spule	10 mH		No. 2500-76 Delevan
G1 701	1	Diode	1 N 4448		
G1 702	1	Diode	1 N 4448		
G1 703	1	Diode	1 N 4448		
G1 704	1	Diode	1 N 4611 A		
G1 710	1	Diode	1 N 4448		
G1 711	1	Diode	1 N 4448		
G1 712	1	Diode	1 N 4448		
Bu 701	1	Buchse	24 polig		WN 119 / 5 / 5
Bu 702	1	Buchse 2			WN 119 / 8 / 1
St 701	1	Stecker	24 polig		WN 119 / 5 / 5
T 701	1	Transistor	BFX 93		
T 702	1	Transistor	BCY 59 D		
T 703	1	Transistor	BCY 59 D		
T 704	1	Transistor	BCY 59 D		
T 705	1	Transistor	BCY 59 D		
T 706	1	Transistor	BCY 78 D		
T 707	1	Transistor	BCY 59 D		
T 708	1	Transistor	BCY 59 D		
T 709	1	Transistor	BCY 59 D		
T 712	1	Transistor	BCY 78 D		
T 713	1	Transistor	BCY 59 D		
T 714	1	Transistor	BCY 78 D		
T 715	1	Transistor	BCY 59 D		
T 716	1	Transistor	BCY 78 D		
T 717	1	Transistor	BCY 59 D		
T 718	1	Transistor	BCY 78 D		
T 719	1	Transistor	BCY 59 D		
T 720	1	Transistor	BCY 78 D		
T 721	1	Transistor	BCY 59 D		
T 722	1	Transistor	BCY 59 D		
T 723	1	Transistor	BCY 59 D		
T 724	1	Transistor	2 N 708		
T 725	1	Transistor	BFX 93		
T 726	1	Transistor	BCY 78 D		

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
R 801	1	Schichtwid.	82 Ω / 5 % / K1. 2 / 0309		
R 802	1	Schichtwid.	3,3 kΩ / 5 % / K1. 2 / 0309		
R 803	1	Schichtwid.	390 Ω / 5 % / K1. 2 / 0309		
R 804	1	Schichtwid.	5,6 kΩ / 5 % / K1. 2 / 0309		
R 805	1	Schichtwid.	3,9 kΩ / 5 % / K1. 2 / 0309		
R 806	1	Schichtwid.	120 Ω / 5 % / K1. 2 / 0309		
R 807	1	Schichtwid.	68 Ω / 5 % / K1. 2 / 0309		
R 808	1	Schichtwid.	470 Ω / 5 % / K1. 2 / 0309		
R 809	1	Schichtwid.	56 Ω / 5 % / K1. 2 / 0309		
R 810	1	Schichtwid.	100 Ω / 5 % / K1. 2 / 0309		
R 812	1	Schichtwid.	22 Ω / 5 % / K1. 2 / 0309		
C 801	1	Ker. Kond.	4,7 nF / +50 -20 % / 500 V ~		WN 110 / 2 / 52
C 802	1	Kf - Kond.	0,1 µF / 20 % / 100 V ~		WN 110 / 3 / 7
C 803	1	Kf - Kond.	0,1 µF / 20 % / 100 V ~		WN 110 / 3 / 7
C 804	1	Kf - Kond.	10 nF / 20 % / 630 V ~		WN 110 / 3 / 7
C 805	1	Kf - Kond.	0,1 µF / 20 % / 100 V ~		WN 110 / 3 / 7
C 806	1	Ker. Kond.	47 pF / 2 %		WN 110 / 2 / 3
C 807	1	Ker. Kond.	1 nF / +80 -20 %		WN 110 / 2 / 3
C 808	1	Kf - Kond.	0,1 µF / 20 % / 100 V ~		WN 110 / 3 / 7
C 809	1	Ker. Kond.	150 pF / 2 % / N 150		WN 110 / 2 / 3
C 810	1	Trimmer	2,5 / 6 pF / N 033		7 S Triko 02 Stettner
C 811	1	Ker. Kond.	5 pF / ± 0,25 pF / 500 V ~		NPO / 18 Sp 5 L R1
C 812	1	Glimmer Kond.	140 pF / 5 % / 500 V ~		Bf.48,10/E Jahre
C 813	1	Glimmer Kond.	75 pF / 5 % / 500 V ~		Bf.48,10/D Jahre
C 814	1	Glimmer Kond.	13 pF / 10 % / 500 V ~		Bf.48,10/C Jahre
C 815	1	Glimmer Kond.	140 pF / 5 % / 500 V ~		Bf.48,10/E Jahre

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
L 802	1	Spule	27 µH		2 WN 117 / 1 / 1
L 803	1	Spule	27 µH		2 WN 117 / 1 / 1
L 804	1	Spule	27 µH		2 WN 117 / 1 / 1
L 805	1	Spule	3,3 µH		WN 117 / 1 / 2
L 806	1	Spule	27 µH		2 WN 117 / 1 / 1
L 808	1	Spule		Bv. 340 - 7826,11	
L 809	1	Spule		Bv. 340 - 7826,12	
L 810	1	Spule		Bv. 340 - 7826,13	
L 811	1	Spule		Bv. 340 - 7826,11	
Ü 801	1	Übertrager		Bv. 340 - 7747,2	
Ü 802	1	Übertrager		Bv. 340 - 7755	
G1 801	1	Diode	1 N 4448		
G1 802	1	Diode	1 N 4448		
T 801	1	Transistor	BFX 73		
T 802	1	Transistor	BFX 73		
S 801	1	Schalter	2 x u,MS 70 + 6 µm hartverg. Hp - Sonderqualität		Typ KMF EBE
S 802	1	Schalter	2 x u,MS 70 + 6 µm hartverg. Hp - Sonderqualität		Typ KMF EBE
Bu 801	1	Buchse		n.Zchng. 340-0420.06 / 5	
Bu 802	1	Buchse B 5	5 polig		WN 119 / 7 / 3
Rel 801	1	Relais			ER 22 C 1 S 3 S - 4 Schaltbau

Trägerfremdsteuerung PS-60
Carrier Synchronous Tuning BN 610 (8)

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
C 901	1	Ker. Kond.	112 pF / 2 % / 400 V ~		N 150/18 RDQU 3x20 Valvo
C 902	1	Ker. Kond.	144 pF / 2 % / 400 V ~		N 150/18 RDQU 3x20 Valvo
C 903	1	Ker. Kond.	143 pF / 2 % / 400 V ~		N 150/18 RDQU 3x20 Valvo
C 904	1	Ker. Kond.	130 pF / 2 % / 400 V ~		N 150/18 RDQU 3x20 Valvo
C 905	1	Ker. Kond.	47 pF / 2 %		WN 110 / 2 / 3

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
L 901	1	Spule		Bv. 340 - 7896	
L 902	1	Spule		Bv. 340 - 7897	
L 903	1	Spule		Bv. 340 - 7898	
L 904	1	Spule		Bv. 340 - 7899	

24-MHz-Tiefpaß PS-60
24 MHz Low-pass Filter BN 610 (9)

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
R 1001	1	Schichtwid.	1,2 kΩ / 5 % / KT. 2 / 0309		
R 1002	1	Schichtwid.	4,7 kΩ / 5 % / KT. 2 / 0309		
R 1003	1	Schichtwid.	100 kΩ / 5 % / KT. 2 / 0309		
[illegible]	1	Schichtwid.	1,2 kΩ / 5 % / KT. 2 / 0309		
[illegible]	1	Schichtwid.	68 Ω / 5 % / KT. 2 / 0309		
R 1006	1	Schichtwid.	100 Ω / 5 % / KT. 2 / 0309		
R 1007	1	Schichtwid.	470 Ω / 5 % / KT. 2 / 0309		
R 1008	1	Schichtwid.	2,7 kΩ / 5 % / KT. 2 / 0309		
R 1009	1	Schichtwid.	68 Ω / 5 % / KT. 2 / 0309		
R 1010	1	Schichtwid.	68 Ω / 5 % / KT. 2 / 0309		
R 1011	1	Schichtwid.	1,2 kΩ / 5 % / KT. 2 / 0309		
R 1012	1	Schichtwid.	33 Ω / 5 % / KT. 2 / 0309		
R 1013	1	Schichtwid.	12 kΩ / 5 % / KT. 2 / 0309		
R 1014	1	Schichtwid.	47 kΩ / 5 % / KT. 2 / 0309		
R 1015	1	Schichtwid.	82 kΩ / 5 % / KT. 2 / 0309		
R 1016	1	Schichtwid.	100 Ω / 5 % / KT. 2 / 0309		
R 1017	1	Schichtwid.	820 Ω / 5 % / KT. 2 / 0309		
R 1018	1	Schichtwid.	1 kΩ / 5 % / KT. 2 / 0309		
R 1019	1	Schichtwid.	68 Ω / 5 % / KT. 2 / 0309		
R 1020	1	Schichtwid.	22 Ω / 5 % / KT. 2 / 0309		
R 1021	1	Schichtwid.	75 Ω / 5 % / KT. 2 / 0309		
R 1022	1	Schichtwid.	820 Ω / 5 % / KT. 2 / 0309		
R 1023	1	Schichtwid.	10 Ω / 5 % / KT. 2 / 0309		
R 1024	1	Schichtwid.	10 Ω / 5 % / KT. 2 / 0309		
R 1025	1	Schichtwid.	10 Ω / 5 % / KT. 2 / 0309		
R 1026	1	Schichtwid.	820 Ω / 5 % / KT. 2 / 0309		
R 1027	1	Schichtwid.	1 kΩ / 5 % / KT. 2 / 0309		
R 1028	1	Schichtwid.	1 kΩ / 5 % / KT. 2 / 0309		
R 1029	1	Schichtwid.	560 kΩ / 5 % / KT. 2 / 0309		
[illegible]	1	Schichtwid.	100 Ω / 5 % / KT. 2 / 0309		Prüffeld
[illegible]	1	Schichtwid.	33 kΩ / 5 % / KT. 2 / 0309		
P 1001	1	Schichtdrehwid.	10 kΩ / lin / 1 W		1 WN 17 / 2 / 6
P 1002	1	Schichtdrehwid.	500 kΩ / lin / 1 W		1 WN 17 / 2 / 6
P 1003	1	Schichtdrehwid.	500 Ω / lin / 0,5 W		1 WN 17 / 2 / 8
P 1004	1	Schichtdrehwid.	5 kΩ / lin / 1 W		1 WN 17 / 2 / 6
C 1001	1	Ker. Kond.	1 nF / +80 -20 %		WN 110 / 2 / 3
C 1002	1	Ker. Kond.	1 nF / +80 -20 %		WN 110 / 2 / 3
C 1003	1	Ker. Kond.	1 nF / +80 -20 %		WN 110 / 2 / 3
C 1004	1	Ker. Kond.	1 nF / +80 -20 %		WN 110 / 2 / 3
C 1005	1	Kf - Kond.	0,1 µF / 20 % / 100 V ~		WN 110 / 3 / 7
C 1006	1	Ker. Kond.	18 pF / 5 %		WN 110 / 2 / 3
C 1007	1	Kf - Kond.	0,1 µF / 20 % / 100 V ~		WN 110 / 3 / 7

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
C 1008	1	Trimmer	4 ... 20 pF / N 470		WN 111 / 1 / 2
C 1009	1	Ker. Kond.	1 nF / +80 -20 % / R 4000		WN 110 / 2 / 3
C 1010	1	Kf - Kond.	0,1 µF / 20 % / 100 V ~		WN 110 / 3 / 7
C 1011	1	Kf - Kond.	0,1 µF / 20 % / 100 V ~		WN 110 / 3 / 7
C 1012	1	Ker. Kond.	1 nF / +80 -20 % / R 4000		WN 110 / 2 / 3
C 1013	1	Ker. Kond.	100 pF / 2 % / N 150		WN 110 / 2 / 3
C 1014	1	Elko	22 µF / 20 % / 16 V ~		WN 110 / 5 / 61
C 1015	1	Ker. Kond.	1 nF / +80 -20 % / R 4000		WN 110 / 2 / 3
C 1016	1	Elko	22 µF / 20 % / 16 V ~		WN 110 / 5 / 61
C 1017	1	Ker. Kond.	4,7 nF / +50 -20 % / 500 V ~		WN 110 / 2 / 52
C 1018	1	Ker. Kond.	4,7 nF / +50 -20 % / 500 V ~		WN 110 / 2 / 52
C 1019	1	Ker. Kond.	4,7 nF / +50 -20 % / 500 V ~		WN 110 / 2 / 52
C 1020	1	Ker. Kond.	4,7 nF / +50 -20 % / 500 V ~		WN 110 / 2 / 52
L 1001	1	Spule	1 µH		WN 117 / 1 / 2
L 1002	1	Spule	27 µH		2 WN 117 / 1 / 1
L 1003	1	Spule	30 µH		B 82501-A-C6 Siemens
L 1004	1	Spule	27 µH		2 WN 117 / 1 / 1
L 1005	1	Spule	27 µH		2 WN 117 / 1 / 1
G1 1001	1	Diode	1 N 4448		
G1 1002	1	Diode	1 N 4448		
T 1001	1	Transistor	BFX 73		
T 1002	1	Transistor	BFX 73		
T 1003	1	Transistor	BFX 73		
T 1004	1	Transistor	BCY 59 D		
T 1005	1	Transistor	BSX 27		
T 1006	1	Transistor	2 N 2784		
Bu 1001	1	Buchse	2 - polig		2 WN 119 / 1 / 8
S 1001	1	Schalter	2 x u		enthalten in Bu 1001

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
R 1101	1	Schichtwid.	1 kΩ / 5 % / Kl. 2 / 0309		
R 1102	1	Schichtwid.	68 kΩ / 5 % / Kl. 2 / 0309		
R 1103	1	Schichtwid.	47 kΩ / 5 % / Kl. 2 / 0309		
R 1104	1	Schichtwid.	150 Ω / 5 % / Kl. 2 / 0309		
R 1106	1	Schichtwid.	12 kΩ / 5 % / Kl. 2 / 0309		
R 1107	1	Schichtwid.	100 Ω / 5 % / Kl. 2 / 0309		
R 1108	1	Schichtwid.	12 kΩ / 5 % / Kl. 2 / 0309		
R 1109	1	Schichtwid.	68 kΩ / 5 % / Kl. 2 / 0309		
R 1110	1	Schichtwid.	47 kΩ / 5 % / Kl. 2 / 0309		
R 1111	1	Schichtwid.	22 kΩ / 5 % / Kl. 2 / 0309		
R 1112	1	Schichtwid.	2,2 kΩ / 5 % / Kl. 2 / 0309		
R 1113	1	Schichtwid.	10 kΩ / 5 % / Kl. 2 / 0309		
R 1114	1	Schichtwid.	4,7 kΩ / 5 % / Kl. 2 / 0309		
R 1115	1	Schichtwid.	5,6 kΩ / 5 % / Kl. 2 / 0309		
R 1116	1	Schichtwid.	1 kΩ / 5 % / Kl. 2 / 0309		
C 1101	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1102	1	Trimmer	2,25 / 30,75 pF		2 WN 111 / 2 / 4
C 1103	1	Ker. Kond.	13 pF / 5 % / 400 V -		NPO/1B RDQU 3 x 10 Valvo
C 1104	1	Elko	2,2 µF / 20 % / 20 V -		WN 110 / 5 / 61
C 1105	1	Glimmer Kond.	430 pF / 1 % / 250 V -		Bf. 53 - 1 Jahre
C 1106	1	Glimmer Kond.	430 pF / 1 % / 250 V -		Bf. 53 - 1 Jahre
C 1107	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1109	1	Kf - Kond.	1,27 nF / 2 % / 63 V -		WN 110 / 3 / 10
C 1110	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1111	1	Kf - Kond.	220 pF / 2 % / 160 V -		WN 110 / 3 / 1
C 1112	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1113	1	Ker. Kond.	12 pF / 5 % / P 100		WN 110 / 2 / 3
C 1114	1	Ker. Kond.	22 pF / 2 % / N 150		WN 110 / 2 / 3

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
L 1102	1	Spule	220 µH		WN 117 / 1 / [illegible]
Ü 1101	1	Übertrager		Bv. 341 - 7737	
T 1101	1	Transistor	BSX 93		
T 1102	1	Transistor	BSX 93		
T 1103	1	Transistor	BSX 93		
T 1104	1	Transistor	BSX 93		
T 1105	1	Transistor	BSX 29		
T 1106	1	Transistor	BSX 93		
T 1107	1	Transistor	BSX 29		
Q 1101	1	Quarz		wahlweise nach Bv. 347 - 9701 oder Bv. 341 - 9703	

1-MHz-Oszillator, Impulsformer PS-60
1 MHz Oscillator, Pulse Shaper BN 610 (11)

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
LS 1201	1	Oszillator		nach BN 640	
St 1201	1	Stecker	6 polig		Mist 6 Nr. 930-306-000 Hirschmann
P 1201	1	Schichtdrehwid.	5 kΩ / lin / 0,3 W		3 WN 17 / 2 / 5
Bu 1201		Buchse 2			WN 119 / 8 / 1
Bu 1203		Buchse 2			WN 119 / 8 / 1

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn

Steueroszillator PS-60
Control Oscillator BN 610 (12)

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
R 1	1	Schichtwid.	33 kΩ / 5 % / K1 2 / 0309		
R 2	1	Schichtwid.	33 kΩ / 5 % / K1 2 / 0309		
R 3	1	Schichtwid.	100 kΩ / 5 % / K1 2 / 0309		
R 4	1	Schichtwid.	56 kΩ / 5 % / K1 2 / 0309		
R 5	1	Schichtwid.	56 kΩ / 5 % / K1 2 / 0309		
R 6	1	Schichtwid.	100 Ω / 5 % / K1 2 / 0309		
R 7	1	Schichtwid.	100 Ω / 5 % / K1 2 / 0309		
R 8	1	Schichtwid.	100 Ω / 5 % / K1 2 / 0309		
R 9	1	Schichtwid.	27 kΩ / 5 % / K1 2 / 0309		
R 10	1	Schichtwid.	470 Ω / 5 % / K1 2 / 0309		
R 11	1	Schichtwid.	10 kΩ / 5 % / K1 2 / 0309		
R 15	1	Schichtwid.	10 kΩ / 5 % / K1 2 / 0309		
R 16	1	Schichtwid.	100 Ω / 5 % / K1 2 / 0309		
R 17	1	Schichtwid.	3,9 kΩ / 5 % / K1 2 / 0309		
R 19	1	Schichtwid.	100 Ω / 5 % / K1 2 / 0309		
R 20	1	Schichtwid.	6,8 kΩ / 5 % / K1 2 / 0309		
R 21	1	Schichtwid.	68 kΩ / 5 % / K1 2 / 0309		
R 22	1	Schichtwid.	2,7 kΩ / 5 % / K1 2 / 0309		
R 23	1	Schichtwid.	2,7 kΩ / 5 % / K1 2 / 0309		
R 24	1	Schichtwid.	470 Ω / 5 % / K1 2 / 0309		
R 27	1	Schichtwid.	470 Ω / 5 % / K1 2 / 0309		
R 28	1	Schichtwid.	15 kΩ / 5 % / K1 2 / 0309		
R 29	1	Schichtwid.	100 Ω / 5 % / K1 2 / 0309		
R 30	1	Schichtwid.	470 Ω / 5 % / K1 2 / 0309		
R 31	1	Schichtwid.	10 kΩ / 5 % / K1 2 / 0309		
R 32	1	Schichtwid.	1,2 kΩ / 5 % / K1 2 / 0309		
R 33	1	Schichtwid.	8,2 kΩ / 5 % / K1 2 / 0309		
R 34	1	Schichtwid.	100 Ω / 5 % / K1 2 / 0309		
R 35	1	Schichtwid.	100 Ω / 5 % / K1 2 / 0309		
R 36	1	Schichtwid.	100 Ω / 5 % / K1 2 / 0309		
R 37	1	Schichtwid.	270 Ω / 5 % / K1 2 / 0309		
R 38	1	Schichtwid.	68 Ω / 5 % / K1 2 / 0309		
R 39	1	Schichtwid.	10 kΩ / 5 % / K1 2 / 0309		
R 40	1	Schichtwid.	68 Ω / 5 % / K1 2 / 0309		
C 1	1	Drehko	9 bis 169 pF	2222 805 90 241 (Valvo)	Platte: 4322 092 11900 ohne Anschlagstift
C 2	1	Trimmer	2,2 / 15 pF		4 WN 111 / 2 / 1
C 3	1	Ker.-Kond.	27 pF / 2 % / N 220		N 220/1A Rd 3 x 10 KzK 6 25 Veff RIG
C 4	1	Ker.-Kond.	180 pF / 2 % / N 150		WN 110 / 2 / 7
C 5	1	Ker.-Kond.	22 pF / 2 % / N 150		N 150/1A Rd 3 x 10 KzK 6 25 Veff RIG
C 6	1	Ker.-Kond.	22 nF / + 100 -20 % / K 10000		WN 110 / 2 / 10
C 8	1	Kf.-Kond.	0,1 µF / 20 % / 100 V ~		WN 110 / 3 / 7
C 9	1	Ker.-Kond.	2,2 pF / ± 0,25pF / NPO		WN 110 / 2 / 9
C 10	1	Kf.-Kond.	0,1 µF / 20 % / 100 V ~		WN 110 / 3 / 7

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
C 11	1	Ker.-Kond.	1 nF / ± 10 % / K 2000		WN 110 / 2 / 10
C 12	1	Kf.-Kond.	0,1 µF / 20 % / 100 V ~		WN 110 / 3 / 7
C 13	1	Kf.-Kond.	0,1 µF / 20 % / 100 V ~		WN 110 / 3 / 7
C 15	1	Ker.-Kond.	1 nF / 10 % / K 2000		WN 110 / 2 / 10
C 16	1	Ker.-Kond.	22 nF / + 100 -20 % /K 10000		WN 110 / 2 / 10
C 17	1	Ker.-Kond.	22 nF / + 100 -20 % /K 10000		WN 110 / 2 / 10
C 18	1	Ker.-Kond.	22 nF / + 100 -20 % /K 10000		WN 110 / 2 / 10
C 19	1	Ker.-Kond.	22 nF / + 100 -20 % /K 10000		WN 110 / 2 / 10
C 20	1	Ker.-Kond.	22 nF / + 100 -20 % /K 10000		WN 110 / 2 / 10
C 21	1	Ker.-Kond.	22 nF / + 100 -20 % /K 10000		WN 110 / 2 / 10
C 22	1	Ker.-Kond.	22 nF / + 100 -20 % /K 10000		WN 110 / 2 / 10
G1 1	1	Diode	1 N 4448		
G1 2	1	Diode	1 N 4448		
G1 5	1	Diode	BA 121		(bis WA-Nr. 21-7582 = BA 110)
G1 6	1	Diode	ZE 1,5		
G1 7	1	Diode	ZPD 5,1 rot		
T 1	1	Transistor	BSX 93		
T 2	1	Transistor	BSX 93		
T 3	1	Transistor	BSX 93		
T 4	1	Transistor	BSX 93		
T 5	1	Transistor	2 N 3251		
T 6	1	Transistor	BSX 93		
T 7	1	Transistor	BSX 93		
T 8	1	Transistor	BSX 93		
S 1	1	Schalter 4			nur Kissling WN 13 / 5 / 2
L 1	1	Spule		Bv. 640 - 7881	
L 2	1	Spule	22 µH		No. 1537 - 44 Delevan
L 3	1	Spule	22 µH		No. 1537 - 44 Delevan
L 4	1	Spule	22 µH		No. 1537 - 44 Delevan
Bu 1	1	Buchse	6 polig		Meb 6 Hirschmann
St 1	1	Stecker 3	75 Ω		WN 119 / 8 / 1
St 2	1	Stecker 3	75 Ω		WN 119 / 8 / 1
St 3	1	Stecker 3	75 Ω		WN 119 / 8 / 1

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
R 1301	1	Schichtwid.	68 Ω / 5 % / Kl. 2 / 0309		
R 1302	1	Schichtwid.	270 Ω / 5 % / Kl. 2 / 0309		
R 1303	1	Schichtwid.	27 Ω / 5 % / Kl. 2 / 0309		
R 1304	1	Schichtwid.	68 Ω / 5 % / Kl. 2 / 0309		
R 1305	1	Schichtwid.	66,5 Ω / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
R 1306	1	Schichtwid.	66,5 Ω / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
R 1307	1	Schichtwid.	69,8 Ω / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
R 1308	1	Schichtwid.	68 Ω / 5 % / Kl. 2 / 0309		
R 1309	1	Schichtwid.	10 Ω / 5 % / Kl. 2 / 0309		
R 1310	1	Schichtwid.	1 kΩ / 5 % / Kl. 2 / 0309		
R 1311	1	Schichtwid.	68 Ω / 5 % / Kl. 2 / 0309		
R 1312	1	Schichtwid.	2,67 kΩ / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
R 1313	1	Schichtwid.	5,76 kΩ / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
R 1314	1	Schichtwid.	1 kΩ / 5 % / Kl. 2 / 0309		
R 1315	1	Schichtwid.	1,8 kΩ / 5 % / Kl. 2 / 0309		
R 1316	1	Schichtwid.	3,3 kΩ / 5 % / Kl. 2 / 0309		
R 1317	1	Schichtwid.	390 Ω / 5 % / Kl. 2 / 0309		
R 1318	1	Schichtwid.	2,7 kΩ / 5 % / Kl. 2 / 0309		
R 1319	1	Schichtwid.	2,2 kΩ / 5 % / Kl. 2 / 0309		
C 1301	1	Ker. Kond.	1 nF / 10 % / K 2000		WN 110 / 2 / 10
C 1302	1	Ker. Kond.	1 nF / 10 % / K 2000		WN 110 / 2 / 10
C 1303	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1304	1	Kf - Kond.	0,22 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1305	1	Kf - Kond.	0,22 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1306	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1307	1	Ker. Kond.	10 nF / +50 -20 % / K 4000		WN 110 / 2 / 4
C 1308	1	Kf - Kond.	22 nF / 20 % / 400 V -		WN 110 / 3 / 7
C 1309	1	Ker. Kond.	4,7 nF / +50 -20 % / 500 V -		WN 110 / 2 / 52
C 1310	1	Kf - Kond.	0,22 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1311	1	Ker. Kond.	22 pF / 2 % / N 150		WN 110 / 2 / 9
C 1312	1	Kf - Kond.	0,22 µF / 20 % / 100 V -		WN 110 / 3 / 7

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
C 1313	1	Kf - Kond.	0,22 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1314	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1315	1	Ker. Kond.	1 nF / 10 % / K 2000		WN 110 / 2 / 10
C 1316	1	Kf - Kond.	0,22 µF / 20 % / 100 V -		WN 110 / 3
L 1301	1	Spule	0,68 µH		WN 117 / 1 / 2
L 1302	1	Spule	47 µH		WN 117 / 1 / 2
L 1303	1	Spule 2	27 µH		WN 117 / 1 / 1
L 1304	1	Spule 2	27 µH		WN 117 / 1 / 1
L 1305	1	Spule 2	27 µH		WN 117 / 1 / 1
L 1306	1	Spule 2	27 µH		WN 117 / 1 / 1
L 1307	1	Spule 2	27 µH		WN 117 / 1 / 1
Ü 1301	1	Übertrager		Bv. 611 - 7730 Serie A + B: Bv. 611 - 7727	
G1 1301	1	Diode	OGA - 5		
G1 1302	1	Diode	OGA - 5		
IC 1301	1	IC	SN 74 S 112 N		
T 1301	1	Transistor	BSX 27		
T 1302	1	Transistor	BFX 48		
T 1303	1	Transistor	BFX 48		
T 1304	1	Transistor	BCY 59 D		
T 1305	1	Transistor	BFX 73		

Teiler 3 : 1 PS-60
Divider 3 : 1 BN 610 (13)

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
R 1401	1	Schichtwid.	100 Ω / 5 % / Kl 2 / 0309		
R 1402	1	Schichtwid.	68 Ω / 5 % / Kl 2 / 0309		
R 1403	1	Schichtwid.	68 Ω / 5 % / Kl 2 / 0309		
R 1404	1	Schichtwid.	1 kΩ / 5 % / Kl 2 / 0309		
R 1405	1	Schichtwid.	3,3 kΩ / 5 % / Kl 2 / 0309		
R 1406	1	Schichtwid.	3,3 kΩ / 5 % / Kl 2 / 0309		
R 1407	1	Schichtwid.	68 Ω / 5 % / Kl 2 / 0309		
R 1408	1	Schichtwid.	12 kΩ / 5 % / Kl 2 / 0309		
R 1409	1	Schichtwid.	12 kΩ / 5 % / Kl 2 / 0309		
R 1410	1	Schichtwid.	150 Ω / 1 % / TK 50 / 0207		WN 18 / 4 / 1
R 1411	1	Schichtwid.	332 Ω / 1 % / TK 50 / 0207		WN 18 / 4 / 1
R 1412	1	Schichtwid.	4,7 Ω / 5 % / Kl 2 / 0309		
R 1413	1	Schichtwid.	10 Ω / 5 % / Kl 2 / 0309		
Ü 1401	1	Übertrager		Bv. 611 - 7731 Serie A + B:	1) Bv. 611 - 7728
Ü 1402	1	Übertrager		Bv. 611 - 7732	2) Bv. 611 - 7729
L 1403	3	Ringkern	6 x 2 x 2 550 M 33	B 64290 - A 0074 - X 033	Siemens
C 1401	1	Kf.-Kond.	1 nF / 2 % / 160 V -		WN 110 / 3 / 1
C 1402	1	Ker.-Kond.	2,2 nF / 10 % / K 2000		WN 110 / 2 / 11

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
C 1403	1	Kf.-Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1404	1	Kf.-Kond.	10 nF / 20 % / 630 V -		WN 110 / 3 / 7
C 1405	1	Kf.-Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1406	1	Kf.-Kond.	290 pF / 1 % / 63 V -		WN 110 / 3 / 10
C 1407	1	Ker.-Kond.	20 pF / 2 % / N 150		WN 110 / 2 / 5
C 1408	1	Kf.-Kond.	290 pF / 1 % / 63 V -		WN 110 / 3 / 10
C 1409	1	Kf.-Kond.	3,3 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1410	1	Kf.-Kond.	10 nF / 20 % / 63 V -		WN 110 / 3 / 7
C 1411	1	Ker.-Kond.	4,7 nF / + 50 - 20 % / 500 V		WN 110 / 2 / 52
L 1401	1	Spule	15 µH		WN 117 / 1 / 2
G1 1401	1	Diode	OGA - 5		
G1 1402	1	Diode	OGA - 5		
G1 1403	1	Diode	OGA - 5		
G1 1404	1	Diode	OGA - 5		
T 1401	1	Transistor	BSX 93		
T 1402	1	Transistor	BSX 93		

Phasenvergleicher PS-60
Phase Comparator BN 610 (14)

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
R 1501	1	Schichtwid.	330 Ω / 5 % / Kl. 2 / 0309		
R 1502	1	Schichtwid.	68 Ω / 5 % / Kl. 2 / 0309		
R 1503	1	Schichtwid.	10 kΩ / 5 % / Kl. 2 / 0309		
R 1504	1	Schichtwid	3,3 kΩ / 5 % / Kl. 2 / 0309		
R 1505	1	Schichtwid.	68 Ω / 5 % / Kl. 2 / 0309		
R 1506	1	Schichtwid.	22 kΩ / 5 % / Kl. 2 / 0309		
R 1507	1	Schichtwid.	56 Ω / 5 % / Kl. 2 / 0309		
R 1508	1	Schichtwid.	38,3 kΩ / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
R 1509	1	Schichtwid.	470 Ω / 5 % / Kl. 2 / 0309		
R 1510	1	Schichtwid.	470 Ω / 5 % / Kl. 2 / 0309		
R 1511	1	Schichtwid.	68 Ω / 5 % / Kl. 2 / 0309		
R 1512	1	Schichtwid.	22 kΩ / 5 % / Kl. 2 / 0309		
R 1513	1	Schichtwid.	12 kΩ / 5 % / Kl. 2 / 0309		
R 1514	1	Schichtwid.	68,1 kΩ / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
R 1515	1	Schichtwid.	28,7 kΩ / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
R 1516	1	Schichtwid.	68 Ω / 5 % / Kl. 2 / 0309		
R 1517	1	Schichtwid.	56 Ω / 5 % / Kl. 2 / 0309		
R 1518	1	Schichtwid.	47 kΩ / 5 % / Kl. 2 / 0309		
R 1519	1	Schichtwid.	5,6 kΩ / 5 % / Kl. 2 / 0309		
R 1520	1	Schichtwid.	56 Ω / 5 % / Kl. 2 / 0309		
R 1521	1	Schichtwid.	470 Ω / 5 % / Kl. 2 / 0309		
R 1522	1	Schichtwid.	174 kΩ / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
R 1523	1	Schichtwid.	49,9 kΩ / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
R 1524	1	Schichtwid.	56 Ω / 5 % / Kl. 2 / 0309		
R 1525	1	Schichtwid.	47 Ω / 5 % / Kl. 2 / 0309		

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
R 1526	1	Schichtwid.	56 Ω / 5 % / Kl. 2 / 0309		
R 1527	1	Schichtwid.	10 Ω / 5 % / Kl. 2 / 0309		
R 1528	1	Schichtwid.	10 Ω / 5 % / Kl. 2 / 0309		
P 150_1	1	Schichtdrehwid.	5 kΩ / lin / 1 W		1 WN 17 / 2 / 6
T 1501	1	Transistor	BCY 78 D		
T 1502	1	Transistor	BCY 78 D		
T 1503	1	Transistor	BCY 59 D		
T 1504	1	Transistor	BCY 78 D		
T 1505	1	Transistor	BCY 59 D		
T 1506	1	Transistor	BCY 59 D		
C 1501	1	Kf - Kond.	1 nF / 2 % / 160 V =		WN 110 / 3 / 1
C 1502	1	Kf - Kond.	1 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 1503	1	Kf - Kond.	2,7 nF / 5 % / 63 V =		WN 110 / 3 / 10
C 1504	1	Kf - Kond.	1 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 1505	1	Elko	150 µF / 20 % / 16 V =		WN 110 / 5 / 61
C 1506	1	Elko	150 µF / 20 % / 16 V =		WN 110 / 5 / 61
C 1507	1	Ker. Kond.	4,7 nF / -20 +50 % / 500 V =		WN 110 / 2 / 52
C 1508	1	Ker. Kond.	4,7 nF / -20 +50 % / 500 V =		WN 110 / 2 / 52
G1 1501	1	Diode	1 N 4448		
G1 1502	1	Diode	1 N 4448		
G1 1503	1	Diode	1 N 4448		

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
R 1601	1	Schichtwid.	47 Ω / 5 % / Kl. 2 / 0309		
R 1602	1	Schichtwid.	220 Ω / 5 % / Kl. 2 / 0309		
R 1603	1	Schichtwid.	8,2 kΩ / 5 % / Kl. 2 / 0309		
R 1604	1	Schichtwid.	22 kΩ / 5 % / Kl. 2 / 0309		
R 1605	1	Schichtwid.	68 Ω / 5 % / Kl. 2 / 0309		
R 1606	1	Schichtwid.	10 kΩ / 5 % / Kl. 2 / 0309		
R 1607	1	Schichtwid.	10 kΩ / 5 % / Kl. 2 / 0309		
R 1608	1	Schichtwid.	68 Ω / 5 % / Kl. 2 / 0309		
R 1609	1	Schichtwid.	4,7 kΩ / 5 % / Kl. 2 / 0309		
R 1610	1	Schichtwid.	4,7 kΩ / 5 % / Kl. 2 / 0309		
R 1611	1	Schichtwid.	10 kΩ / 5 % / Kl. 2 / 0309		
R 1612	1	Schichtwid.	8,2 kΩ / 5 % / Kl. 2 / 0309		
R 1613	1	Schichtwid.	270 Ω / 5 % / Kl. 2 / 0309		
R 1614	1	Schichtwid.	8,2 kΩ / 5 % / Kl. 2 / 0309		
R 1615	1	Schichtwid.	47 Ω / 5 % / Kl. 2 / 0309		
R 1616	1	Schichtwid.	100 Ω / 5 % / Kl. 2 / 0309		
R 1617	1	Schichtwid.	1 kΩ / 5 % / Kl. 2 / 0309		
R 1618	1	Schichtwid.	10 Ω / 5 % / Kl. 2 / 0309		
R 1619	1	Schichtwid.	10 Ω / 5 % / Kl. 2 / 0309		
R 16[illegible]	1	Schichtwid.	120 Ω / 5 % / Kl. 2 / 0309		
L 1601	1	Spule 2	27 µH		WN 117 / 1 / 1
L 1602	1	Spule		Bv. 611 - 78P1	

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
C 1601	1	Kf - Kond.	0,1 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 1602	1	Elko	150 µF / 20 % / 16 V =		WN 110 / 5 / 61
C 1603	1	Kf - Kond.	0,1 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 1604	1	Kf - Kond.	0,1 µF / 20 % / 100 V =		WN 110 / 3 / [illegible]
C 1605	1	Kf - Kond.	2,2 nF / 2 % / 160 V =		WN 110 / 3 / [illegible]
C 1606	1	Kf - Kond.	10 nF / 20 % / 630 V =		WN 110 / 3 / 7
C 1607	1	Kf - Kond.	1 nF / 2 % / 160 V =		WN 110 / 3 / 1
C 1608	1	Kf - Kond.	10 nF / 20 % / 630 V =		WN 110 / 3 / 7
C 1609	1	Kf - Kond.	1 nF / 2 % / 160 V =		WN 110 / 3 / 1
C 1610	1	Kf - Kond.	10 nF / 20 % / 630 V =		WN 110 / 3 / 7
C 1611	1	Ker. Kond.	4,7 nF / +50 -20 % / 500 V =		WN 110 / 2 / 52
C 1612	1	Ker. Kond.	4,7 nF / +50 -20 % / 500 V =		WN 110 / 2 / 52
G1 1601	1	C - Diode	BB 109 G		
G1 1602	1	C - Diode	BB 109 G		
G1 1603	1	C - Diode	BB 109 G		
G1 1604	1	Diode	OGA - 5		
G1 1605	1	Diode	1 N 4448		
G1 1606	1	Diode	1 N 4448		
G1 1607	1	Diode	1 N 4448		
T 1601	1	Transistor	BFY 90		
T 1602	1	Transistor	BFY 90		
T 1603	1	Transistor	BFY 90		
T 1604	1	Transistor	BFY 90		

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
R 1801	1	Schichtwid.	4,7 kΩ / 5 % / K1. 2 / 0309		
R 1802	1	Schichtwid.	1,8 kΩ / 5 % / K1. 2 / 0309		
R 1803	1	Schichtwid.	330 Ω / 5 % / K1. 2 / 0309		
R 1804	1	Schichtwid.	330 Ω / 5 % / K1. 2 / 0309		
R 1805	1	Schichtwid.	33 kΩ / 5 % / K1. 2 / 0309		
R 1806	1	Schichtwid.	220 Ω / 5 % / K1. 2 / 0309		
R 1807	1	Schichtwid.	.1 kΩ / 5 % / K1. 2 / 0309		
R 1808	1	Schichtwid.	1 kΩ / 5 % / K1. 2 / 0309		
R 1809	1	Schichtwid.	100 Ω / 5 % / K1. 2 / 0309		
R 1810	1	Schichtwid.	8,2 kΩ / 5 % / K1. 2 / 0309		
R 1811	1	Schichtwid.	680 Ω / 5 % / K1. 2 / 0309		
R 1812	1	Schichtwid.	680 Ω / 5 % / K1. 2 / 0309		
R 1813	1	Schichtwid.	18 kΩ / 5 % / K1. 2 / 0309		
R 1814	1	Schichtwid.	100 Ω / 5 % / K1. 2 / 0309		
R 1815	1	Schichtwid.	2,2 kΩ / 5 % / K1. 2 / 0309		
R 1816	1	Schichtwid.	680 Ω / 5 % / K1. 2 / 0309		
R 1817	1	Schichtwid.	8,2 kΩ / 5 % / K1. 2 / 0309		
R 1818	1	Schichtwid.	8,2 kΩ / 5 % / K1. 2 / 0309		
R 1819	1	Schichtwid.	4,7 kΩ / 5 % / K1. 2 / 0309		
R 1820	1	Schichtwid.	47 Ω / 5 % / K1. 2 / 0309		
R 1821	1	Schichtwid.	6,8 kΩ / 5 % / K1. 2 / 0309		
R 1822	1	Schichtwid.	560 Ω / 5 % / K1. 2 / 0309		
R 1823	1	Schichtwid.	18 kΩ / 5 % / K1. 2 / 0309		
R 1824	1	Schichtwid.	33 Ω / 5 % / K1. 2 / 0309		
R 1825	1	Schichtwid.	8,2 kΩ / 5 % / K1. 2 / 0309		
R 1826	1	Schichtwid.	39 kΩ / 5 % / K1. 2 / 0309		
R 1827	1	Schichtwid.	100 Ω / 5 % / K1. 2 / 0309		
R 1828	1	Schichtwid.	100 Ω / 5 % / K1. 2 / 0309		
R 1829	1	Schichtwid.	100 Ω / 5 % / K1. 2 / 0309		
R 1830	1	Schichtwid.	820 Ω / 5 % / K1. 2 / 0309		
R 1831	1	Schichtwid.	1 kΩ / 5 % / K1. 2 / 0309		
R 1832	1	Schichtwid.	1,8 kΩ / 5 % / K1. 2 / 0309		
R 1835	1	Schichtwid.	680 Ω / 5 % / K1. 2 / 0309		
R 1836	1	Schichtwid.	100 Ω / 5 % / K1. 2 / 0309		
R 1837	1	Schichtwid.	100 Ω / 5 % / K1. 2 / 0309		
C 1801	1	Ker. Kond.	12 pF / 5 % / P 100		WN 110 / 2 / 3
C 1802	1	Kf - Kond.	10 nF / 20 % / 630 V -		WN 110 / 3 / 7
C 1803	1	Kf - Kond.	10 nF / 20 % / 630 V -		WN 110 / 3 / 7
C 1804	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1805	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 /-3 / 7
C 1806	1	Ker. Kond.	100 pF / 2 % / 400 V -		N 150/18 RDQU 3 x 18 nur Valvo
C 1807	1	Ker. Kond.	100 pF / 2 % / 400 V -		N 150/18 RDQU 3 x 18 nur Valvo
C 1808	1	Kf - Kond.	1 µF / 10 % / 100 V -		MKT 1822-510/0 Ero
C 1809	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1810	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1811	1	Kf - Kond.	10 nF / 20 % / 630 V -		WN 110 / 3 / 7
C 1812	1	Kf - Kond.	1 µF / 10 % / 100 V -		MKT 1822-510/0 Ero
C 1813	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1814	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1815	1	Kf - Kond.	10 nF / 20 % / 630 V -		WN 110 / 3 / 7
C 1816	1	Glimmer - Kond.	1 nF / 1 % / 250 V -		Bf. 5.. - 1 Jahre
C 1817	1	Ker. Kond.	47 pF / 2 % / N 150		WN 110 / 2 / 3
C 1818	1	Ker. Kond.	33 pF / 2 % / N 150		WN 110 / 2 / 3

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
C 1819	1	Kf - Kond.	10 nF / 20 % / 630 V -		WN 110 / 3 / 7
C 1820	1	Ker. Kond.	120 pF / 2 % / N 150		WN 110 / 2 / 3
C 1821	1	Ker. Kond.	10 nF / +80 -20 % / R 6000		WN 110 / 2 / 3
C 1822	1	Ker. Kond.	56 pF / 2 % / N 150		WN 110 / 2 / 3
C 1823	1	Glimmer - Kond.	100 pF / 5 % / 300 V -		Bf. 49,14-4 Jahre
C 1824	1	Elko	22 µF / 20 % / 16 V -		WN 110 / 5 / 61
C 1825	1	Ker. Kond.	1 nF / +80 -20 % / R 4000		WN 110 / 2 / 3
C 1826	1	Ker. Kond.	82 pF / 2 % / N 150		WN 110 / 2 / 3
L 1801	1	Spule	3,3 µH		WN 117 / 1 / 2
L 1802	1	Spule	30 µH / 0,3 A		B 82501-A-C6 Siemens
L 1803	1	Spule		Bv. 341 - 7888	
L 1804	1	Spule	68 µH		WN 117 / 1 / 2
L 1805	1	Spule	1 µH		WN 117 / 1 / 2
Ü 1801	1	Übertrager		Bv. 341 - 7727	
G1 1801	1	Diode	OGA - 5		
G1 1802	1	Diode	OGA - 5		
G1 1803	1	Diode	OGA - 5		
G1 1804	1	Diode	OGA - 5		
G1 1805	1	Diode	MV 1648		nur Motorola
G1 1806	1	Diode	Hp 5082 - 2811		
T 1801	1	Transistor	BSX 29		
T 1802	1	Transistor	BFX 59		nur Siemens
T 1803	1	Transistor	BCY 59 D		
T 1804	1	Transistor	BSX 29		
T 1805	1	Transistor	BCY 59 D		
T 1806	1	Transistor	BSX 88		
T 1807	1	Transistor	BSX 29		
T 1808	1	Transistor	BSX 29		

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung	Hersteller, Anmerkgn
R 1901	1	Schichtwid.	100 Ω / 5 % / K1. 2 / 0309		
R 1902	1	Schichtwid.	680 Ω / 5 % / K1. 2 / 0309		
R 1903	1	Schichtwid.	6,8 kΩ / 5 % / K1. 2 / 0309		
R 1904	1	Schichtwid.	15 kΩ / 5 % / K1. 2 / 0309		
R 1905	1	Schichtwid.	75 Ω / 1 % / K1.0,5 / 0309		WN 18 / 1 / 3
R 1906	1	Schichtwid.	5,6 kΩ / 5 % / K1. 2 / 0309		
R 1907	1	Schichtwid.	10 kΩ / 5 % / K1. 2 / 0309		
R 1908	1	Schichtwid.	3,9 kΩ / 5 % / K1. 2 / 0309		
R 1909	1	Schichtwid.	120 Ω / 5 % / K1. 2 / 0309		
R 1910	1	Schichtwid.	220 Ω / 5 % / K1. 2 / 0309		
R 1911	1	Schichtwid.	100 Ω / 5 % / K1. 2 / 0309		
R 1912	1	Schichtwid.	180 Ω / 5 % / K1. 2 / 0309		
R 1913	1	Schichtwid.	100 Ω / 5 % / K1. 2 / 0309		
T 1901	1	Transistor	OW 7154		
T 1902	1	Transistor	BCY 59 D		
T 1903	1	Transistor	BCY 59 D		

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung	Hersteller, Anmerkgn
C 1901	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1902	1	Kf - Kond.	10 nF / 20 % / 630 V -		WN 110 / 3 / 7
C 1905	1	Elko	22 µF / 20 % / 16 V -		WN 110 / 5 / 61
C 1906	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1907	1	Kf - Kond.	0,1 µF / 20 % / 100 V -		WN 110 / 3 / 7
C 1908	1	Kf - Kond.	10 nF / 20 % / 630 V -		WN 110 / 3 / 7
C 1909	1	Glimmer - Kond.	1,5 nF / 1 % / 250 V -		Bf. 53 - 1 Jahre
C 1910	1	Glimmer - Kond.	2,2 nF / 1 % / 250 V -		Bf. 53 - 2 Jahre
L 1901	1	Spule	150 µH		WN 117 / 1 / 2
L 1902	1	Spule	15 µH		WN 117 / 1 / 2
U 1901	1	Übertrager		Bv. 340 - 7737	
Bu 1901	1	Buchse	UNI 9 F		WN 119 / 9 / 4

1-MHz-Fremdsteuerung PS-60
1 MHz Remote Control BN 610 (19)

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung	Hersteller, Anmerkgn
R 2001	1	Schichtwid.	5,6 kΩ / 5 % / K1. 2 / 0309		
R 2002	1	Schichtwid.	68 Ω / 5 % / K1. 2 / 0309		
R 2003	1	Schichtwid.	2,2 kΩ / 5 % / K1. 2 / 0309		
R 2004	1	Schichtwid.	2,2 kΩ / 5 % / K1. 2 / 0309		
R 2005	1	Schichtwid.	2,7 kΩ / 5 % / K1. 2 / 0309		
R 2006	1	Schichtwid.	68 Ω / 5 % / K1. 2 / 0309		
R 2007	1	Schichtwid.	10 kΩ / 5 % / K1. 2 / 0309		
R 2008	1	Schichtwid.	100 kΩ / 5 % / K1. 2 / 0309		
R 2009	1	Schichtwid.	47 kΩ / 5 % / K1. 2 / 0309		
R 2010	1	Schichtwid.	5,6 kΩ / 5 % / K1. 2 / 0309		
R 2011	1	Schichtwid.	68 Ω / 5 % / K1. 2 / 0309		
R 2014	1	Schichtwid.	10 Ω / 5 % / K1. 2 / 0309		
R 2015	1	Schichtwid.	10 Ω / 5 % / K1. 2 / 0309		
R 2016	1	Schichtwid.	10 Ω / 5 % / K1. 2 / 0309		
R 2017	1	Schichtwid.	1 kΩ / 5 % / K1. 2 / 0309		
R 2018	1	Schichtwid.	10 kΩ / 5 % / K1. 2 / 0309		
C 2001	1	Kf - Kond.	100 pF / 2 % / 160 V -		WN 110 / 3 / 1
C 2002	1	Kf - Kond.	1 nF / 2 % / 160 V -		WN 110 / 3 / 1

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung	Hersteller, Anmerkgn
C 2003	1	Kf - Kond.	220 pF / 2 % / 160 V -		WN 110 / 3 / 1
C 2004	1	Kf - Kond.	1 nF / 2 % / 160 V -		WN 110 / 3 / 1
C 2005	1	Kf - Kond.	10 nF / 20 % / 630 V -		WN 110 / 3 / 7
C 2006	1	Elko	22 µF / 20 % / 16 V -		WN 110 / 5 / 61
C 2009	1	Ker. Kond.	4,7 nF / +50 -20 % / 500 V -		WN 110 / 2 / 52
C 2010	1	Ker. Kond.	4,7 nF / +50 -20 % / 500 V -		WN 110 / 2 / 52
C 2011	1	Ker. Kond.	4,7 nF / +50 -20 % / 500 V -		WN 110 / 2 / 52
C 2012	1	Elko	22 µF / 20 % / 16 V -		WN 110 / 5 / 61
T 2001	1	Transistor	BCY 59 D		
T 2002	1	Transistor	BCY 59 D		
T 2003	1	Transistor	BCY 59 D		1)
L 2001	1	Spule	100 µH		WN 117 / 1 / 2
G1 2001	1	Diode	1 N 4448		
JC 2001	1	JC	MC 14518		2)
JC 2002	1				2)
				Serie 8: 1) BCY 78 D; 2) CD 4029 AE;	

Frequenzteiler PS-60
Frequency Divider BN 610 (20)

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung	Hersteller, Anmerkgn
R 2014	1	Schichtwiderstand	10 Ω / 5 % / K1 2 / 0309	WN 18 / 3 / 1	
R 2015	1	Schichtwiderstand	10 Ω / 5 % / K1 2 / 0309	WN 18 / 3 / 1	
R 2016	1	Schichtwiderstand	10 Ω / 5 % / K1 2 / 0309	WN 18 / 3 / 1	
C 2009	1	Ker.-Kond.	4,7 nF / +50-20 % / 500 V -	WN 110 / 2 / 52	
C 2010	1	Ker.-Kond.	4,7 nF / +50-20 % / 500 V -	WN 110 / 2 / 52	
C 2011	1	Ker.-Kond.	4,7 nF / +50-20 % / 500 V -	WN 110 / 2 / 52	

Siebung PSS-60
Filtering BN 610/2 (20)

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller Anmerkgn
R 2101	1	Schichtwid.	2,2 kΩ / 5 % / K1. 2 / 0309		
R 2102	1	Schichtwid.	2,2 kΩ / 5 % / K1. 2 / 0309		
R 2103	1	Schichtwid.	2,2 kΩ / 5 % / K1. 2 / 0309		
R 2104	1	Schichtwid.	2,2 kΩ / 5 % / K1. 2 / 0309		
R 2105	1	Schichtwid.	2,2 kΩ / 5 % / K1. 2 / 0309		
R 2106	1	Schichtwid.	2,2 kΩ / 5 % / K1. 2 / 0309		
R 2107	1	Schichtwid.	1 MΩ / 5 % / K1. 2 / 0309		1)
R 2107	1	Schichtwid.	1 MΩ / 5 % / K1.2 / 0309	Serie (ab): 1) entfällt	1)
R 2108	1	Schichtwid.	1 MΩ / 5 % / K1. 2 / 0309		1)
R 2110	1	Schichtwid.	22 kΩ / 5 % / K1. 2 / 0309		
R 2111	1	Schichtwid.	22 kΩ / 5 % / K1. 2 / 0309		
R 2112	1	Schichtwid.	22 kΩ / 5 % / K1. 2 / 0309		
R 2113	1	Schichtwid.	22 kΩ / 5 % / K1. 2 / 0309		
R 2114	1	Schichtwid.	22 kΩ / 5 % / K1. 2 / 0309		
R 2115	1	Schichtwid.	22 kΩ / 5 % / K1. 2 / 0309		
R 2116	1	Schichtwid.	5,6 kΩ / 5 % / K1. 2 / 0309		
R 2117	1	Schichtwid.	5,6 kΩ / 5 % / K1. 2 / 0309		
R 2120	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2121	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2122	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2123	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2124	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2125	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2126	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2127	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2128	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2129	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2130	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2135	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2137	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2138	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2139	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2140	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2141	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2142	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2143	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2144	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2145	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2146	1	Schichtwid.	1 Ω / 5 % / K1. 2 / 0309		
R 2149	1	Schichtwid.	22 kΩ / 5 % / K1. 2 / 0309		
R 2150	1	Schichtwid.	3,3 Ω / 5 % / K1. 2 / 0309		

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller Anmerkgn
R 2151	1	Schichtwid.	5,6 kΩ / 5 % / K1. 2 / 0309		
R 2152	1	Schichtwid.	330 kΩ / 5 % / K1. 2 / 0309		
R 2153	1	Schichtwid.	18 kΩ / 5 % / K1. 2 / 0309		
R 2154	1	Schichtwid.	33 kΩ / 5 % / K1. 2 / 0309		
R 2155	1	Schichtwid.	330 kΩ / 5 % / K1. 2 / 0309		
R 2156	1	Schichtwid.	18 kΩ / 5 % / K1. 2 / 0309		
R 2157	1	Schichtwid.	33 kΩ / 5 % / K1. 2 / 0309		
R 2158	1	Schichtwid.	1,8 kΩ / 5 % / K1. 2 / 0309		
R 2159	1	Schichtwid.	1,8 kΩ / 5 % / K1. 2 / 0309		
R 2160	1	Schichtwid.	5,6 kΩ / 5 % / K1. 2 / 0309		
C 2101	1	Ker. Kond.	18 pF / 2 % / N 150		WN 110 / 2 / 9
C 2102	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2103	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2104	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2105	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2106	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2107	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2108	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2109	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2110	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2111	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2112	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2117	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2119	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2120	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2121	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2122	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2123	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2124	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2125	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2126	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2127	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2128	1	Ker. Kond.	10 nF / -20 +100 % / K 10000		WN 110 / 2 / 10
C 2129	1	Ker. Kond.	4,7 nF / 500 V =		WN 110 / 2 / 52
C 2130	1	Kf - Kond.	1 µF / 10 % / 100 V =		WN 110 / 3 / 6
C 2131	1	Ker. Kond.	18 pF / 2 % / N 150		WN 110 / 2 / 9

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung	Hersteller, Anmerkgn
L 2101	1	Spule	9 µH / 2 A		B 82501 - A - C 23 Siemens
L 2102	1	Spule	10 µH		WN 117 / 1 / 2
L 2103	1	Spule	10 µH		WN 117 / 1 / 2
T 2101	1	Transistor	2 N 3440		
T 2102	1	Transistor	2 N 3440		
IC 2101	1	IC	DD 700		
IC 2102	1	IC	SN 74 L 75 N		
IC 2103	1	IC	CD 4029 AE		
IC 2104	1	IC	DD 700		
IC 2105	1	IC	SN 74 L 75 N		
IC 2106	1	IC	CD 4029 AE		
IC 2107	1	IC	DD 700		
IC 2108	1	IC	SN 74 L 75 N		
IC 2109	1	IC	CD 4029 AE		
IC 2110	1	IC	DD 700		
IC 2111	1	IC	SN 74 L 75 N		
IC 2112	1	IC	CD 4029 AE		
IC 2113	1	IC	DD 700		
IC 2114	1	IC	SN 74 L 75 N		
IC 2115	1	IC	SN 7490 N		
IC 2116	1	IC	DD 700		
IC 2117	1	IC	SN 74 L 75 N		
IC 2118	1	IC	SN 7490 N S 1		
IC 2119	1	IC	SN 7404 N		
IC 2120	1	IC	SN 7451 N		
IC 2121	1	IC	SN 4929 N		
IC 2122	1	IC	SN 74 L 02 N		
IC 2123	1	IC	SN 7410 N		
IC 2124	1	IC	SN 7476 N		

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung	Hersteller, Anmerkgn
IC 2126	1	IC	SN 74 L 00 N		
IC 2127	1	IC	CD 4017 AE		
IC 2128	1	IC	CD 4027 AE		
IC 2129	1	IC	CD 4024 AE		
IC 2130	1	IC	CD 4011 AE		
IC 2131	1	IC	SN 74 L 10 N		
IC 2132	1	IC	CD 4001 AE		
IC 2133	1	IC	SN 74 LS 74 N	Serie A + B:	SN 74 L 74 N
IC 2134	1	IC	SN 74 L 02 N		
IC 2135	1	IC	SN 74 L 00 N		
Bu 2101	1	Buchse 2			WN 119 / 8 / 1
St 2101	1	Stecker C			WN 119 / 8 / 3
S 2101	1	Schalter 4			WN 13 / 5 / 2
RÖ 2101	1	Anzeige	Sp 332		Sperry 1)
RÖ 2102	1	Anzeige	Sp 332		Sperry 1)
RÖ 2103	1	Anzeige	Sp 332		Sperry
				Serie A + B: 1) 3	

Zähler, Anzeige PS-60
Counter, Indication BN 610 (21)

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
S 2201	1	Schalter		nach Zeichnung 610 - 0340.00 / 2	

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
G1 2201	1	Diode	OA 182		Telefunken

Ausgangspegelschalter PS-60
Output Level switch BN 610 (22)

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
R 2401	1	Schichtwid.	47 Ω / 5 % / K1. 2 / 0309		
R 2402	1	Schichtwid.	470 kΩ / 5 % / K1. 2 / 0309		
R 2403	1	Schichtwid.	100 w / 5 % / K1. 2 / 0309		
R 2404	1	Schichtwid.	68 kΩ / 5 % / K1. 2 / 0309		
R 2405	1	Schichtwid.	56 kΩ / 5 % / K1. 2 / 0309		
R 2406	1	Schichtwid.	220 kΩ / 5 % / K1. 2 / 0309		
R 2407	1	Schichtwid.	220 kΩ / 5 % / K1. 2 / 0309		
R 2408	1	Schichtwid.	120 kw / 5 % / K1. 2 / 0309		
R 2409	1	Schichtwid.	270 kΩ / 5 % / K1. 2 / 0309		
R 2410	1	Schichtwid.	100 kΩ / 5 % / K1. 2 / 0309		
R 2411	1	Schichtwid.	10 kw / 5 % / K1. 2 / 0309		
R 2412	1	Schichtwid.	330 kΩ / 5 % / K1. 2 / 0309		
R 2413	1	Schichtwid.	220 w / 5 % / K1. 2 / 0309		
R 2414	1	Schichtwid.	27 kw / 5 % / K1. 2 / 0309		
R 2415	1	Schichtwid.	8,2 kΩ / 5 % / K1. 2 / 0309		
R 2416	1	Schichtwid.	100 kΩ / 5 % / K1. 2 / 0309		
R 2417	1	Schichtwid.	270 kw / 5 % / K1. 2 / 0309		
R 2418	1	Schichtwid.	33 kΩ / 5 % / K1. 2 / 0309		
R 2419	1	Schichtwid.	330 kw / 5 % / K1. 2 / 0309		
R 2420	1	Schichtwid.	27 kΩ / 5 % / K1. 2 / 0309		
R 2421	1	Schichtwid.	2,2 kw / 5 % / K1. 2 / 0309		
R 2422	1	Schichtwid.	68 kw / 5 % / K1. 2 / 0309		
R 2423	1	Schichtwid.	47 kΩ / 5 % / K1. 2 / 0309		
R 2424	1	Schichtwid.	820 kw / 5 % / K1. 2 / 0309		
R 2425	1	Schichtwid.	120 kw / 5 % / K1. 2 / 0309		
R 2426	1	Schichtwid.	47 kw / 5 % / K1. 2 / 0309		
R 2427	1	Schichtwid.	10 Ω / 5 % / K1. 2 / 0309		
R 2428	1	Schichtwid.	10 kw / 5 % / K1. 2 / 0309		
C 2401	1	Kf - Kond.	0,22 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 2402	1	Kf - Kond.	1 µF / 10 % / 100 V =		MKT 1822-510/0 Ero
C 2403	1	Kf - Kond.	47 nF / 20 % / 250 V =		WN 110 / 3 / 7
C 2404	1	Kf - Kond.	0,22 µF / 20 % / 100 V =		WN 110 / 3 / 7
C 2405	1	Kf - Kond.	10 nF / 20 % / 630 V =		WN 110 / 3 / 7
C 2406	1	Kf - Kond.	4,7 µF / 10 % / 100 V =		MKT 1822-547/0 Ero
C 2407	1	Kf - Kond.	0,47 µF / 20 % / 100 V =		WN 110 / 3 / 7
L 2401	1	Spule			2 WN 117 / 1 / 1

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
G1 2401	1	Diode	1 N 4448		
G1 2402	1	Diode	1 N 4448		
G1 2403	1	Diode	1 N 4448		
G1 2404	1	Diode	1 N 4448		
G1 2405	1	Diode	1 N 4448		
G1 2406					
G1 2407				Serie A u. E:	1 N 4448
G1 2408					
G1 2409	1	Diode	1 N 4448		
G1 2410	1	Diode	1 N 4448		
G1 2411	1	Diode	1 N 4448		
G1 2412	1	Diode	1 N 4448		
G1 2413	1	Diode	1 N 4448		
G1 2414	1	Z - Diode	ZPD 15		
G1 2415	1	Z - Diode	ZPD 15		
T 2401	1	Transistor	DW 7154		
T 2402	1	Transistor	DW 7154		
T 2403	1	Transistor	BCY 59 D		
T 2404	1	Transistor	BFX 93		
T 2405	1	Transistor	DW 7154		
T 2406	1	Transistor	BCY 59 D		
T 2407	1	Transistor	BCY 59 D		
T 2408	1	Transistor	BFX 93		
T 2409	1	Transistor	DW 7154		
T 2410	1	Transistor	DW 7154		
T 2411	1	Transistor	DW 7154		
T 2412	1	Transistor	BSX 88		
T 2413	1	Transistor	BSX 93	Serie A u. E:	entfällt
Bu 2401	1	Buchse			WN 119 / 2 / 3
S 2401	1	Schalter 4			WN 13 / 5 / 2

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
R 2501	1	Schichtwid.	820 Ω / 5 % / Kl. 2 /0309		5)
R 2502	1	Schichtwid.	1,2 kΩ / 5 % / Kl. 2 /0309		2)
R 2503	1	Schichtwid.	100 kΩ / 5 % / Kl. 2 / 0309		3)
R 2504	1	Schichtwid.	12 kΩ / 5 % / Kl. 2 / 0309		6)
R 2505	1	Schichtwid.	47 kΩ / 5 % / Kl. 2 / 0309		4)
R 2506	1	Schichtwid.	0,82 Ω / 5 % / Kl. 2 / 0309		1)
R 2507	1	Schichtwid.	0,82 Ω / 5 % / Kl. 2 / 0309		1)
R 2508	1	Schichtwid.	390 Ω / 5 % / Kl. 2 / 0309		
R 2510	1	Schichtwid.	560 kΩ / 5 % / Kl. 2 / 0309		
R 2511	1	Schichtwid.	12 kΩ / 5 % / Kl. 2 / 0309		
R 2512	1	Schichtwid.	56 Ω / 5 % / Kl. 2 / 0309		
R 2513	1	Schichtwid.	10 Ω / 5 % / Kl. 2 / 0309		
R 2514	1	Schichtwid.	1,8 kΩ / 5 % / Kl. 2 / 0309		
R 2515	1	Schichtwid.	10 kΩ / 5 % / Kl. 2 / 0309		
R 2516	1	Schichtwid.	220 kΩ / 5 % / Kl. 2 / 0309		
R 2517	1	Schichtwid.	3,3 Ω / 5 % / Kl. 2 / 0309		
R 2518	1	Schichtwid.	3,01 kΩ / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
R 2519	1	Schichtwid.	4,42 kΩ / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
R 2520	1	Schichtwid.	1 kΩ / 5 % / Kl. 2 / 0309		
R 2521	1	Schichtwid.	453 kΩ / 1 % / Tk 50 / 0207		WN 18 / 4 / 1 5)
R 2522	1	Schichtwid.	34 kΩ / 1 % / Tk 50 / 0207		WN 18 / 4 / 1 5)
R 2523	1	Schichtwid.	8,2 kΩ / 5 % / Kl. 2 / 0309		5)
		Serie A: 1) entfällt; Serie A + B: 2) 39 kΩ/0309; 3) 5,6 kΩ/0309; 4) 270 Ω/0414; 5) entfällt; 6) 2,7 MΩ			
R 2525	1	Schichtwid.	560 kΩ / 5 % / Kl. 2 / 0309		
R 2526	1	Schichtwid.	12 kΩ / 5 % / Kl. 2 / 0309		
R 2527	1	Schichtwid.	56 Ω / 5 % / Kl. 2 / 0309		
R 2528	1	Schichtwid.	10 Ω / 5 % / Kl. 2 / 0309		
R 2529	1	Schichtwid.	1,8 kΩ / 5 % / Kl. 2 / 0309		
R 2530	1	Schichtwid.	10 kΩ / 5 % / Kl. 2 / 0309		
R 2531	1	Schichtwid.	220 kΩ / 5 % / Kl. 2 / 0309		
R 2532	1	Schichtwid.	2,7 Ω / 5 % / Kl. 2 / 0309		Serie A + B: 3,3 Ω
R 2533	1	Schichtwid.	3,01 kΩ / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
R 2534	1	Schichtwid.	4,42 kΩ / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
R 2535	1	Schichtwid.	1 kΩ / 5 % / Kl. 2 / 0309		
R 2540	1	Schichtwid.	56 Ω / 5 % / Kl. 2 / 0309		
R 2541	1	Schichtwid.	330 kΩ / 5 % / Kl. 2 / 0309		
R 2542	1	Schichtwid.	56 Ω / 5 % / Kl. 2 / 0309		
R 2543	1	Schichtwid.	5,6 kΩ / 5 % / Kl. 2 / 0309		
R 2544	1	Schichtwid.	68 Ω / 5 % / Kl. 2 / 0309		
R 2545	1	Schichtwid.	1,96 kΩ / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
R 2546	1	Schichtwid.	5,11 kΩ / 1 % / Tk 50 / 0207		WN 18 / 4 / 1
R 2547	1	Schichtwid.	1 kΩ / 5 % / Kl. 2 / 0309		
R 2548	1	Schichtwid.	10 kΩ / 5 % / Kl. 2 / 0309		
R 2549	1	Schichtwid.	100 kΩ / 5 % / Kl. 2 / 0309		
R 2550	1	Schichtwid.	2,2 Ω / 5 % / Kl. 2 / 0309		Serie A + B: 1,5 Ω

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
R 2551	1	Schichtwid.	1,8 Ω / 5 % / Kl. 2 / 0309		Serie A + B: 1,5 Ω
R 2552	1	Schichtwid.	1 kΩ / 5 % / Kl. 2 / 0309		
P 2501	1	Schichtdrahtwid.	10 kΩ / lin / 0,5 W		1 WN 17 / 2 / 8
P 2502	1	Schichtdrahtwid.	10 kΩ / lin / 0,5 W		1 WN 17 / 2 / 8
P 2503	1	Schichtdrahtwid.	10 kΩ / lin / 0,5 W		1 WN 17 / 2 / 8
C 2501	1	Elko	10 µF / +50 -10 % / 350 V -		WN 110 / 5 / 40
C 2502	1	Ker. Kond.	100 pF / 20 % / N 750	Serie A + B: 1 µF/250 V- WN 110/5/40	WN 110 / 2 / 8
C 2503	1	Kf - Kond.	10 nF / 20 % / 630 V -	Serie A+B: entfällt	WN 110 / 3 / 7
C 2505	1	Elko	470 µF / +50 -10 % / 40 V -		WN 110 / 5 / 40
C 2506	1	Ker. Kond.	150 pF / 2 % / N 150		WN 110 / 2 / 9
C 2507	1	Elko	1 µF / 20 % / 35 V -		WN 110 / 5 / 61
C 2508	1	Elko	47 µF / +50 -10 % / 40 V -		WN 110 / 5 / 40
C 2509	1	Elko	1 µF / 20 % / 35 V -		WN 110 / 5 / 61
C 2512	1	Elko	470 µF / +50 -10 % / 40 V -	Serie A+B: 100 µF/25 V-	WN 110 / 5 / 40
C 2513	1	Ker. Kond.	150 pF / 2 % / N 150		WN 110 / 2 / 9
C 2514	1	Elko	1 µF / 20 % / 35 V -		WN 110 / 5 / 61
C 2515	1	Elko	47 µF / +50 -10 % / 40 V -		WN 110 / 5 / 40
C 2516	1	Elko	1 µF / 20 % / 35 V -		WN 110 / 5 / 61
C 2519	1	Elko	2200 µF / +50 -10 % / 16 V -		WN 110 / 5 / 40
C 2520	1	Elko	100 µF / +50 -10 % / 16 V -		WN 110 / 5 / 40
C 2521	1	Ker. Kond.	680 pF / 2 % / K 2000		WN 110 / 2 / 10
C 2522	1	Elko	1 µF / 20 % / 35 V -		WN 110 / 5 / 61
C 2523	1	Elko	47 µF / +50 -10 % / 16 V -		WN 110 / 5 / 40
L 2501	1	Spule	4,3 mH / 20 A		B 82101 - A - A 3
U 2501	1	Netztrafo		Bv. 610 - 7703	Serie A: Bv. 610 - 7701 Serie B: 610-7702

Fortsetzung (continued)

Fortsetzung (continued)

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
T 2501	1	Transistor	2 N 3440		
T 2502	1	Transistor	BCY 78 D		2)
T 2503	1	Transistor	MJE 3055		mit Zahn- und Glimmerscheibe
T 2504	1	Transistor	2 N 3440		2)
T 2505	1	Transistor	MJE 3055		mit Zahn- und Glimmerscheibe
T 2507	1	Transistor	MJE 3055		mit Zahn- und Glimmerscheibe
T 2508	1	Transistor	BSX 45 - 16		
G1 2501	1	Gleichrichter	1 N 4007		3)
G1 2502	1	Diode	1 N 4448		1)
G1 2503	1	Diode	1 N 4007		2)
G1 2504	1	Gleichrichter	B 40 C 600 St		
G1 2505	1	Diode	1 N 4007		2)
G1 2506	1	Gleichrichter	B 40 C 600 St		
G1 2507	1	Diode	1 N 4007		2)
G1 2508	1	Gleichrichter	B 40 C 3200 / 2200		
G1 2511	1	Diode	BAY 17		
G1 2511	1	Diode	BAY 17		
G1 2512	1	Diode	BAY 17		

Serie A - E: 1) ZY 200; 2) entfällt; 3) B 250 C 600 St

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung ·	Hersteller, Anmerkgn
IC 2501	1	IC	L 123 T 1		
IC 2502	1	IC	L 123 T 1		
IC 2503	1	IC	L 123 T 1		
S 2501	1	Schalter	(00 - 1800.38 / 5)		WN 13 / 2 / 3
S 2502	1	Schalter			WN 13 / 10 /2
St 2501	1	Stecker			WN 119 / 3 / 5
Bu 2501	1	Buchse			WN 119 / 2 / 7 1)
Si 2501	1	Ge.-Schmelzeins.	für 110 V - T 0,25 B für 220 V - T 0,125 B		WN 115 / 2 / 1
	1	Netzfilter	nach BN 427 / 43		

Serie A - E: 1) WN 119/2/5

Netzteil PS-60
Power Supply BN 610 (25)

Teil	Stck	Bezeichnung	Elektrische Werte	Bestellangaben Benennung	Hersteller, Anmerkgn
R 701	1	Schichtwiderstand	390 Ω / 5% / K1 2 / 0309	WN 18 / 3 / 1	
R 702	1	Schichtwiderstand	390 Ω / 5% / K1 2 / 0309	WN 18 / 3 / 1	
C 701	1	Pauerkunvensator	10 nF / 250 V	WN 110 / 1 / 2	1)
L 701	1	Spule	45 µH / 1,5 A	B 82501 - C - C 12	Siemens
L 702	1	Spule	45 µH / 1,5 A	B 82501 - C - C 12	Siemens
L 703	1	Spule	45 µH / 1,5 A	B 82501 - C - C 12	Siemens
L 704	1	Spule	45 µH / 1,5 A	B 82501 - C - C 12	Siemens

Serie A...E: 1) 100 V / WN 110 / 1 / 1

BN 427/43
Netzverdrosselung (Power Line Chokes)

Teil	Stck	Bezeichnung	Bestellangaben Elektrische Werte	Benennung, Hersteller	zu-sätzlich	entfällt	Bemerkungen
R 601						x	
R 602						x	
R 604						x	
R 604	1	Schichtwid.	6,8 kΩ / 5% / kl. 2/ 0309		x		
R 605						x	
R 605	1	Schichtwid.	68 Ω / 5% / kl. 2/ 0309		x		
R 606						x	
R 606	1	Schichtwid.	24,9 Ω /0,5%/ Tk 50/ 0207	SMA 0207 nur CRL	x		
R 607						x	
R 607	1	Schichtwid.	21,3Ω /0,5%/ Tk 50/ 0207	WN 18 / 4 / 1	x		
R 608						x	
R 608	1	Schichtwid.	22,1Ω /0,5%/ Tk 50/ 0207	WN 18 / 4 / 1	x		
R 609						x	
R 609	1	Schichtwid.	68kΩ / 5% / kl. 2/ 0309		x		
R 610	1	Schichtwid.	18,7Ω / 0,5% / Tk 50/ 0207	WN 18 / 4 / 1	x		
R 611	1	Schichtwid.	18,9Ω / 0,5% / Tk 50/ 0207	WN 18 / 4 / 1	x		
R 619						x	
R 619	1	Schichtwid.	22 Ω / 5% / kl. 2/ 0309		x		
R 621	1	Schichtwid.	6,8kΩ/ 5% / kl. 2/ 0309		x		
P 604						x	
C 605						x	
C 605	1	Ker. Kond.	15 pF / 2%	WN 110 / 2 / 3	x		
C 606						x	
C 606	1	Ker. Kond.	22 pF / 2%	WN 110 / 2 / 3	x		
C 607	1	Ker. Kond.	27 pF / 2%	WN 110 / 2 / 3	x		
C 608	1	Kf. Kond.	4,7 µF / 10% / 100 V-	WN 110 / 3 / 6	x		
C 609	1	Ker. Kond.	68 pF / 2%	WN 110 / 2 / 3	x		
C 610						x	

Teil	Stck	Bezeichnung	Bestellangaben Elektrische Werte	Benennung, Hersteller	zu-sätzlich	entfällt	Bemerkungen
C 610	1	Ker. Kond.	5,1 pF / ± 0,5 pF	WN 110 / 2 / 3	x		
C 619	1	Ker. Kond.	2 pF / ± 0,25 pF	WN 110 / 2 / 3	x		
C 620	1	Glimmer-Kond.	300pF / ± 3 pF / 250 V-	Bf. 53.1	x		Jahre
C 621	1	Glimmer-Kond.	300pF / ± 3 pF / 250 V-	Bf. 53.1	x		Jahre
C 622	1	Kf. Kond.	0,68 µF / 20% / 63 V-	B 32 110,- E 9684 - M	x		Siemens
St 601						x	
St 602						x	
L 605	1	Spule		Bv. 340 - 7892	x		
[illegible] 606						x	
[illegible] 606	1	Übertrager		Bv. 340 - 7730	x		
[illegible] 607	1	Übertrager		Bv. 340 - 7731	x		
S 601						x	
S 601	1	Schalter	4x3 Kontakte, Au Ni+ 7µm hartvergoldet	SB 16, Typ 1704 K Achse = 20 mm	x		
rel 607						x	
rel 608						x	
Ma 601						x	
Bu 602						x	
Bu 603						x	
Bu 604						x	
Bu 605	1	Buchse	Typ 470 C (Bell. System)		x		
Bu 606						x	
Bu 606	1	Buchse	Typ 470 C (Bell. System)		x		
Bu 607	1	Buchse	Typ 470 C (Bell. System)		x		
Bu 609	1	Buchse	Typ 216 F (Bell. System)		x		
Bu 610	1	Buchse	Typ 216 F (Bell. System)		x		

Änderungen von BN 610 in BN 610/1
Modifications from BN 610 to BN 610/1

Teil	Stck	Bezeichnung	Bestellangaben Elektrische Werte	Benennung, Hersteller	zu-sätzlich	entfällt	Bemerkungen
G1 801	1	Diode				x	
G1 802	1	Diode				x	
S 801	1	Schalter				x	
Q 1101	1	Quarz				x	
R 1602	1	Schichtwid.				x	
R 1603	1	Schichtwid.				x	
R 1604	1	Schichtwid.				x	
R 1605	1	Schichtwid.				x	
R 1606	1	Schichtwid.				x	
R 1607	1	Schichtwid.				x	
R 1608	1	Schichtwid.				x	
R 1609	1	Schichtwid.				x	
R 1610	1	Schichtwid.				x	
R 1611	1	Schichtwid.				x	
C 1602	1	Elko				x	
C 1603	1	Kf - Kond.				x	
C 1604	1	Kf - Kond.				x	
C 1605	1	Kf - Kond.				x	
C 1606	1	Kf - Kond.				x	
C 1607	1	Kf - Kond.				x	
C 1610	1	Ker. Kond.				x	

Teil	Stck	Bezeichnung	Bestellangaben Elektrische Werte	Benennung, Hersteller	zu-sätzlich	entfällt	Bemerkungen
T 1601	1	Transistor				x	
T 1602	1	Transistor				x	
G1 1601	1	C - Diode				x	
G1 1602	1	C - Diode				x	
G1 1603	1	C - Diode				x	
G1 1604	1	Diode				x	
G1 1605	1	Diode				x	
G1 1607	1	Diode				x	
L 1601	1	Spule				x	
L 1602	1	Spule				x	

vgl. auch Schaltteilliste (20)
see also Parts List

Änderungen von BN 610 in BN 610/2
Modifications from BN 610 to BN 610/2

Teil	Stck	Bezeichnung	Bestellangaben Elektrische Werte	Benennung, Hersteller	zu-sätzlich	entfällt	Bemerkungen
R 601						x	
R 602						x	
R 604						x	
R 604	1	Schichtwid,	6,8 kΩ / 5% / kl. 2/ 0309		x		
R 605						x	
R 605	1	Schichtwid.	68 Ω / 5% / kl. 2/ 0309		x		
R 606						x	
R 606	1	Schichtwid.	24,9 Ω /0,5%/ Tk 50/ 0207	SMA 0207 nur CRL	x		
R 607						x	
R 607	1	Schichtwid.	21,3Ω /0,5%/ Tk 50/ 0207	WN 18 / 4 / 1	x		
R 608						x	
R 608	1	Schichtwid.	22,1Ω /0,5%/ Tk 50/ 0207	WN 18 / 4 / 1	x		
R 609						x	
R 609	1	Schichtwid.	68kΩ / 5% / kl. 2/ 0309		x		
R 610	1	Schichtwid.	18,7Ω / 0,5% / Tk 50/ 0207	WN 18 / 4 / 1	x		
R 611	1	Schichtwid.	18,9Ω / 0,5% / Tk 50/ 0207	WN 18 / 4 / 1	x		
R 619						x	
R 619	1	Schichtwid.	22 Ω / 5% / kl. 2/ 0309		x		
R 621	1	Schichtwid.	6,8kΩ/ 5% / kl. 2/ 0309		x		
P 604						x	
C 605						x	
C 605	1	Ker. Kond.	15 pF / 2%	WN 110 / 2 / 3	X		
C 606						x	
C 606	1	Ker. Kond.	22 pF / 2%	WN 110 / 2 / 3	x		
C 607	1	Ker. Kond.	27 pF / 2%	WN 110 / 2 / 3	x		
C 608	1	Kf. Kond.	4,7 µF / 10% / 100 V-	WN 110 / 3 / 6	x		
C 609	1	Ker. Kond.	68 pF / 2%	WN 110 / 2 / 3	x		
C 610						x	
C 610	1	Ker. Kond.	5,1 pF / ± 0,5 pF	WN 110 / 2 / 3	x		
C 619	1	Ker. Kond.	2 pF / ± 0,25 pF	WN 110 / 2 / 3	x		
C 620	1	Glimmer-Kond.	300pF / ± 3 pF / 250 V-	Bf. 53.1	x		Jahre
C 621	1	Glimmer-Kond.	300pF / ± 3 pF / 250 V-	Bf. 53.1	x		Jahre
C 622	1	Kf. Kond.	0,68 µF / 20% / 63 V-	B 32 110 - E 9684 - M	x		Siemens
L 605	1	Spule		Bv. 340 - 7892	x		
Ü 606						x	
Ü 606	1	Übertrager		Bv. 340 - 7730	x		
Ü 607	1	Übertrager		Bv. 340 - 7731	x		
S 601						x	
S 601	1	Schalter	4x3 Kontakte, Au Ni+ 7µm hartvergoldet	SB 16, Typ 1704 K Achsl = 20 mm	x		
rel 607						x	
rel 608						x	
Ma 601						x	

Teil	Stck	Bezeichnung	Bestellangaben Elektrische Werte	Benennung, Hersteller	zu-sätzlich	entfällt	Bemerkungen
Bu 602						x	
Bu 603						x	
Bu 604						x	
Bu 605	1	Buchse	Typ 470 C (Bell. System)		x		
Bu 606						x	
Bu 606	1	Buchse	Typ 470 C (Bell. System)		x		
Bu 607	1	Buchse	Typ 470 C (Bell. System)		x		
Bu 609	1	Buchse	Typ 216 F (Bell. System)		x		
Bu 610	1	Buchse	Typ 216 F (Bell. System)		x		
St 601						x	
St 602						x	

Schaltteilliste (8), (11), (16), (20) gleich wie BN 610/2
Parts List equal to

Änderungen von BN 610 in BN 610/3
Modifications from to

www.manualsplus.com

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